



Smart

Industry Enabler
Industrial PCs Product Guide



APLEX ADVANTAGE

1. A Full Spectrum of IPC Products

The system products consist of stainless steel panel PC, industrial Panel PCs, HMI, embedded BOX PCs, and industrial Displays. Meanwhile, APLEX is also focusing on boards designs and manufacturing in China. By providing a complete industrial products, APLEX is dedicated to satisfying customers' needs.

2. A Broad of range Applications

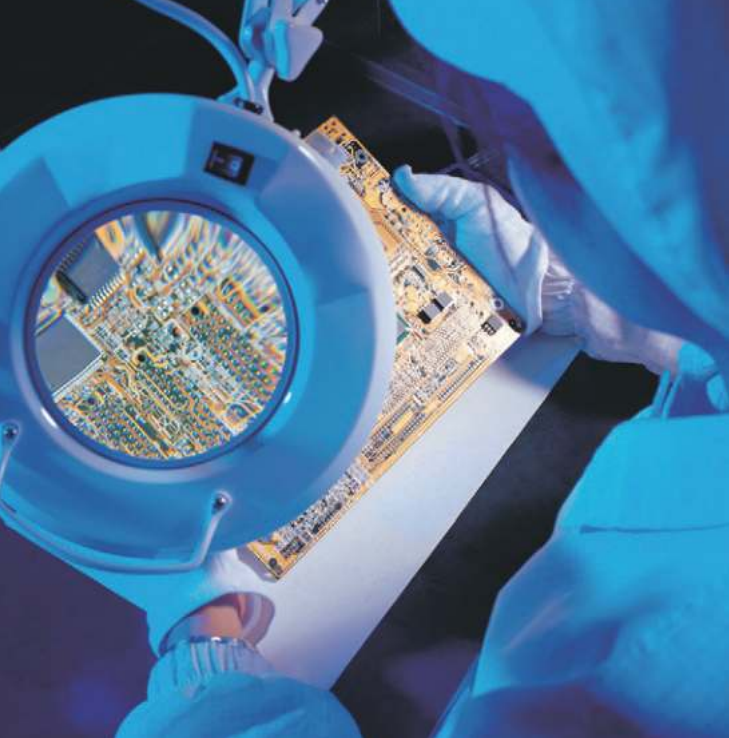
Applications cover factory automation, transportation, retail, hospitality, warehousing, medical, and vertical applications include hazardous, marine, fleet management and railway and so on.

3. Elite Staff and Sophisticated Equipment

With more than a decade of experiencing in IPC industry, APLEX R&D members are committee to designing and making innovation products. APLEX set up R&D lab in order to fulfill hardware engineers to examine products and ensure their functionalities.

4. Time to Market

APLEX has implemented NPDP (New Product Development Process) system since 2012 to keep projects going smoothly, and it is proven working well. A complete and efficient project management system optimizes project input and production output; as a result of making customers always satisfied.



APLEX specializes in providing the RoHS compliant products, and keeps close cooperation with the suppliers to guarantee the products accord with the European legislation on environmental issues. The RoHS compliant products on websites or datasheets will be identified by the RoHS symbol. Therefore this process will be done in full coordination with our partners and updated accordingly.

QUALITY

APLEX won ISO 9001 quality assurance in January, and 2007 and we actively support environmental protection by working with suppliers and customers. To implement effectively the quality system, a series of strict tests will be made throughout the design process, such as EMI test, vibration test and temperature test.



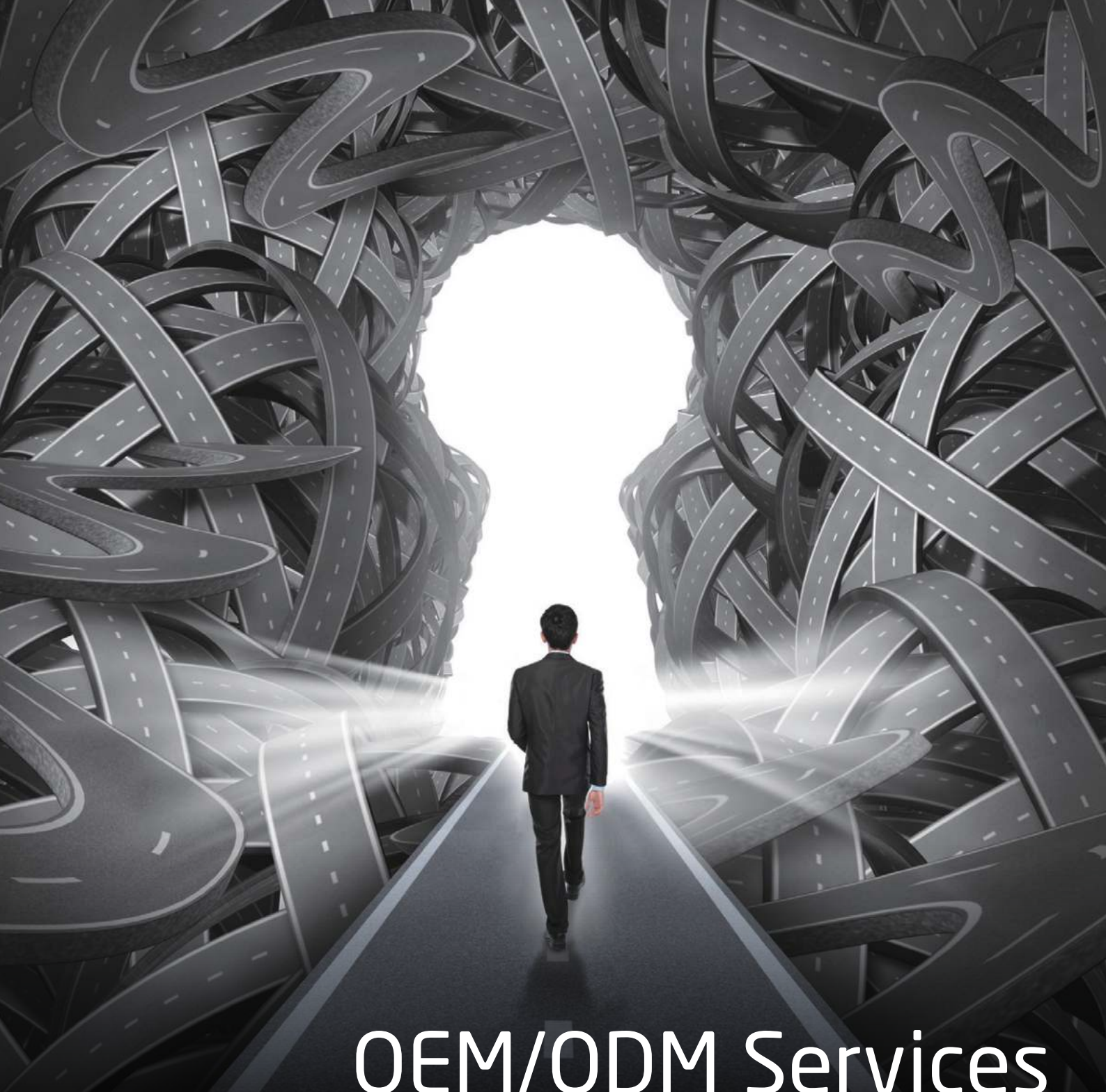
Environmental Policy

- > Product design and manufacture procedure are complying with regulations.
- > Products "Go Green" through dedicated research and development.
- > Product design and manufacture are carefully controlled to prevent environmental pollution.
- > APLEX dedicates to elevating environmental consciousness with not only full involvement of the whole company but the continuous improvement in creating eco-friendly products.

Quality Policy

- > Customer Satisfaction
- > Innovation & Creation
- > Pursue Excellence
- > Sustainable Business





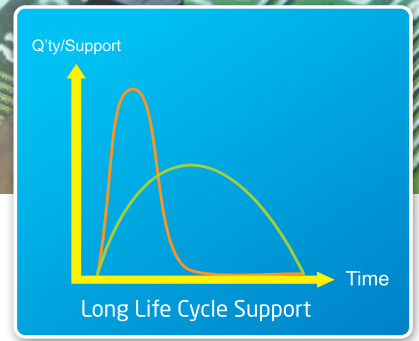
OEM/ODM Services

Apart from standard products, APLEX offers OEM/ODM services to meet customer's needs in different industries and applications. We provide tailored made products, ranging from hardware architectures including CPU Sku, LCD sizes, touch Screen, to software packages such as BIOS, firmware and drivers. Either "small quantity and great variety" or "high quality but cost effective " products, APLEX is able to fulfill and deliver the best solutions to our OEM/ODM customers.

Tailored



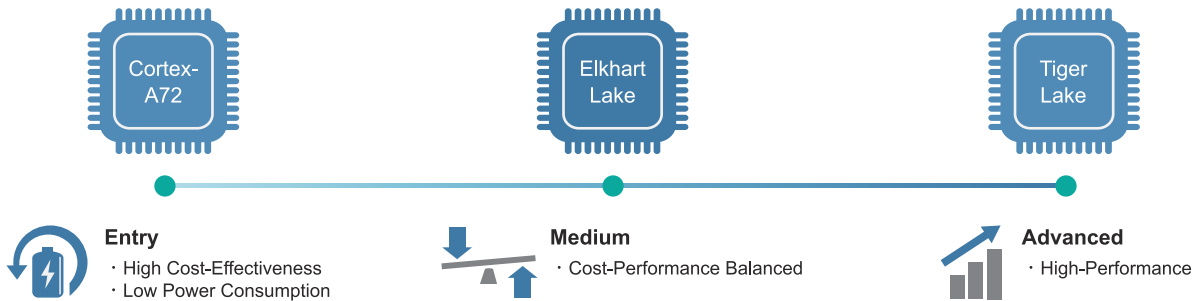
Why Embedded?



Embedded Processor Means Long Product Life Time.
Embedded Processor Provides Low Power Consumption and High Reliability.

Both embedded x86 based processors and Advanced RISC Machine(ARM) based platform are designed with power- and cost-sensitive applications. Therefore, APLEX's new generation HMI product of ARM Cortex-A72 processors offers comprehensive integration, software and hardware enablement, and one of the broadest performance ranges for ARM solutions. Moreover, ARM Cortex series processor enables advanced 3D graphics acceleration, flexible communication interfaces and robust display options. Providing our customers with various choices to meet their needs and application.

From X86 based to ARM based, APLEX offers many different solutions so that our customer may simply select one of them to adapt to their industrial and vertical applications such as factory automation, mobile and rugged device, logistic, security, transportation, cost-effective equipment, heavy-duty industry, etc.



APLEX manufactures Full Spectrum of Embedded industrial board showing equivalent performance on efficacy and costs that deliver the excellent balance solution for our embedded system.

Completed Embedded OS Support



Operation System	Windows 10	Windows 11	Linux	Android
OS Sku	Windows 10 IoT Windows 10 Pro	Windows 11 IoT	Linux 5.X	Android 10 above



APLEX Provides Various Touch Screen Solution in diverse product lines and sizes.

In order to fit customers' needs and make our products friendlier and more convenient when operating, APLEX supports touch screen options for not only panel PC products but also HMI and Display product lines. There are two main types of touch panel technologies in industrial PC application: resistive touch window type and projected capacitive touch screen type. Especially, APLEX develops a new technology to support flat-bezel on resistive touch instead of traditional resistive touch type.

Type	Resistive		Capacitive	
	4-Wire	5-Wire	Surface	Projected
Operate	Finger stylus/ Touch pen	Finger stylus/ Touch pen	Finger touch/ Capacitive Touch pen	Finger touch/ Capacitive Touch pen
Glove	Yes	Yes	No	No(Only medical glove)
Multi-touch	No	No	No	Yes
Hardness	3H	3H	7H	7H
Flat Bezel	Option	Option	Yes	Yes
Transmission*	over 80%	over 80%	over 90%	over 90%
Lifetime	General	Good	Good	Good

Resistive Touch Window

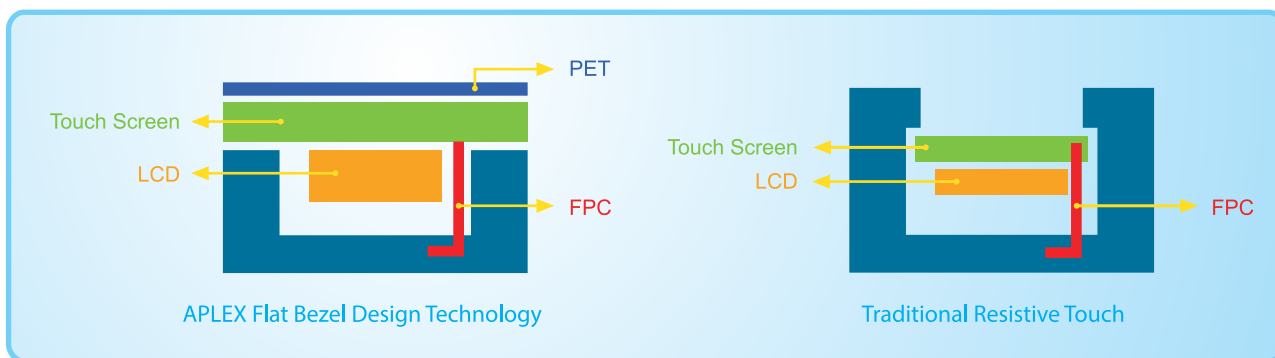
How It Works

A uniform voltage gradient is applied to one sheet. Whenever the second sheet touches the other one, the second sheet measures the voltage as a distance along the first sheet. This combination of voltage and distance provides X coordinate.

After the X coordinate is located, the process repeats itself by applying uniform voltage gradient to the second sheet in order to find the Y coordinate. This entire process happens in a matter of milliseconds, oblivious to human eye.

APLEX Flat Bezel Panel Design Technology

APLEX Flat Bezel Panel Design Technology features: no gap at front panel, panel display area 100% usable, easy to clean the front panel; no gap, dirt prevention, water accumulation. Moreover, Flat Bezel Design has a trendy housing design look.



Capacitive Touch

How it works

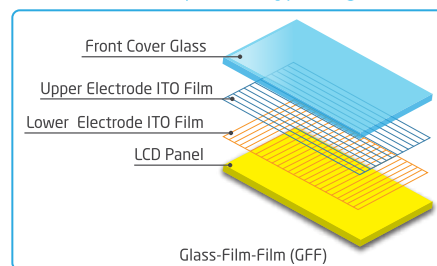
A capacitive touchscreen panel consists of an insulator such as glass, coated with a transparent conductor such as indium tin oxide (ITO). As the human body is also an electrical conductor, touching the surface of the screen results in a distortion of the screen's electrostatic field, measurable as a change in capacitance. Different technologies may be used to determine the location of the touch. The location is then sent to the controller for processing.

Unlike a resistive touchscreen, one can't use a capacitive touchscreen through most types of electrically insulating material, such as gloves. This disadvantage especially affects usability in consumer electronics, like touch tablet PCs and capacitive smartphones in cold weather. More and more, it can be overcome with a special capacitive stylus, or a special-application glove with an embroidered patch of conductive thread passing through it and contacting the user's fingertip.

The Projected Capacitive Touch (PCT) is a common solution in industrial devices because it provides advantages of high durability (long life), excellent optical performance, anti-scratch and unlimited multi-touch and meets industrial-grade users' requirements for reliability, compatibility, expansion options and long term supply.

APLEX offers an array of PCT products including panel PC, HMI and Display in order to appeal to those with less budget limits.

Out-Cell Capacitive Type Diagram





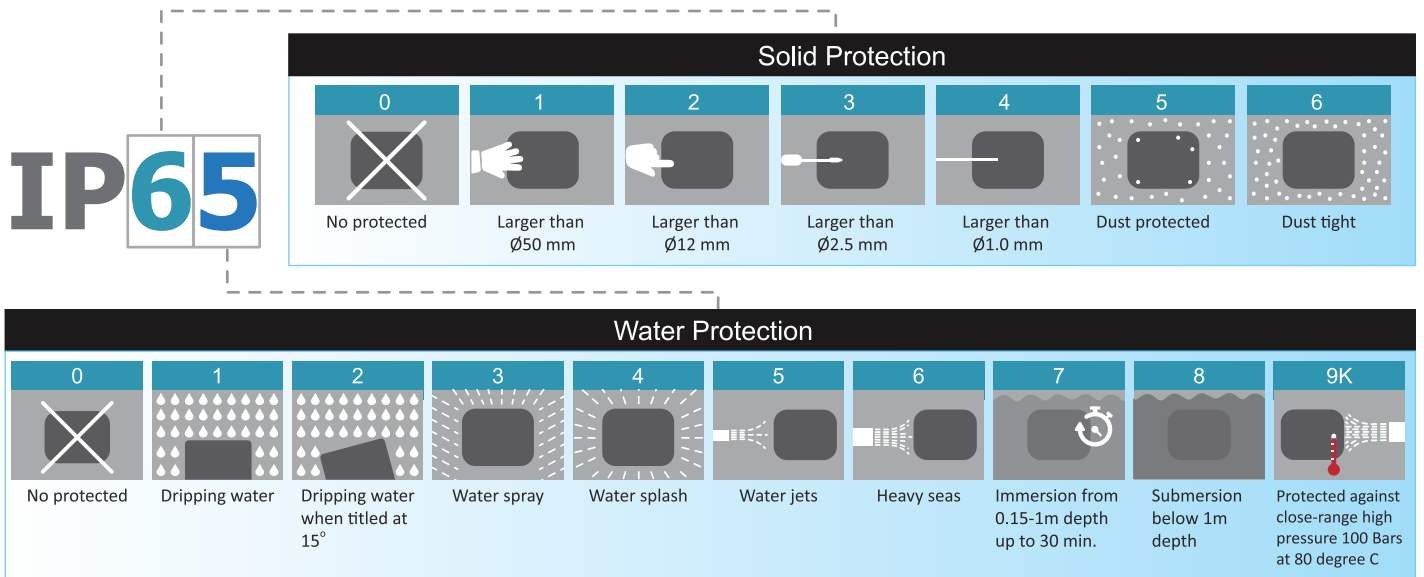
Waterproof and Dustproof Solution

- ▶ Perfect Cleanability
- ▶ Semi-outdoor Application
- ▶ Easy Maintenance

APLEX provides different IP ratings for all products that can go through many challenging circumstances.

What is IP Ratings?

The IP Rating (international Protection Rating/ Ingress Protection Rating). As defined in international standard IEC 60529. Published by the International Electrotechnical Commission (IEC), the equivalent European standard is EN 60529. The rating consists of the letters IP and followed by 2 digitals, rated on a scale from 0 to 9, this standard are used to classify the degrees of sealing effectiveness of APLEX electrical enclosures against the intrusion of solid objects, accidental contact dirt and water.



IP Rating Testing

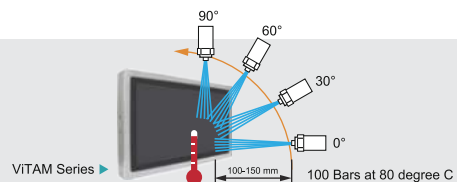
APLEX basically offers IP6X degree of solid particle protection, the most common rating in our catalog which means fully protecting the ingress of dust. According to different requirements, the IP66/IP67/IP69K rating are for our panel PC, HMI, and box PC.

In many industries, dust and dirt might be an issue, it is critical to ensure that dust cannot penetrate the casing of a product and cause it to fail. IP69K is the most protective, making products ideal for use in conditions where equipment must be carefully hygienic.

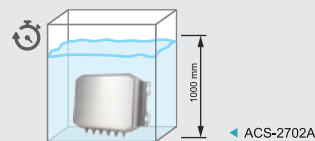
The highest Protection Available



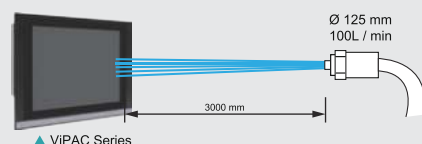
- Full-fledged protection from dust.
- Protected against close-range high pressure, high temperature spray downs.



- Full-fledged protection from dust.
- Protected against temporary immersion.

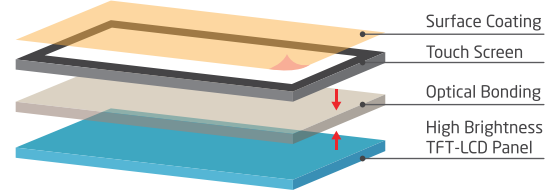


- Full-fledged protection from dust.
- Protected against multi-directional, high-pressure water jets.



Sunlight Readable Solution

APLEX supports sunlight readable solution which provides you with clarity and brilliance under any high light condition.



Now You Can See Me LED backlight LCD with high brightness up to 1000 nits

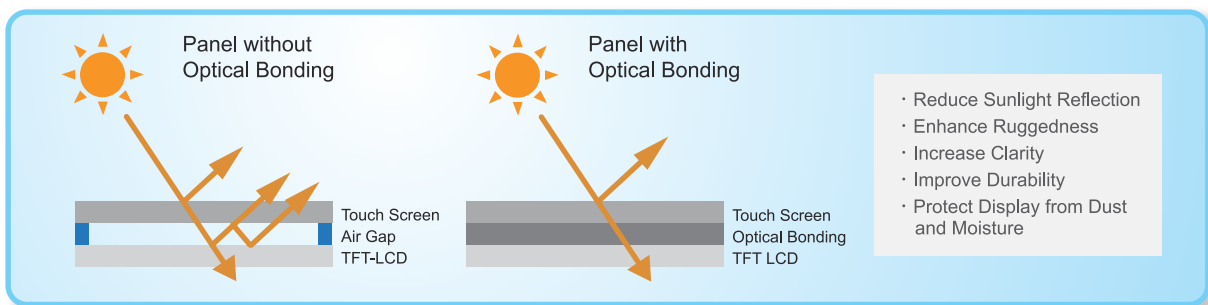
The sunlight readable solution is now more prevalent than ever before. This is because the normal screen contents become invisible under strong light condition, and could make operation error and lead to damage especially in industrial application. Therefore, APLEX offers reliable and solid rock quality displays for system integrators to use in applications where are high ambient light around. Adopted optional high brightness LCD up to 1000 nits and optical bonding that is a technology to improve display performance and increase the screen ruggedness for demanding semi-outdoor application.

- **Auto-Dimming**
Automatically adjust the brightness based on the environment factors.
- **High Brightness**
Luminance from 600 nits up to 1000 nits for semi-outdoor application.
- **LED Backlight LCD**
Greatly save the power consumption and provide the longer LCD lifetime.



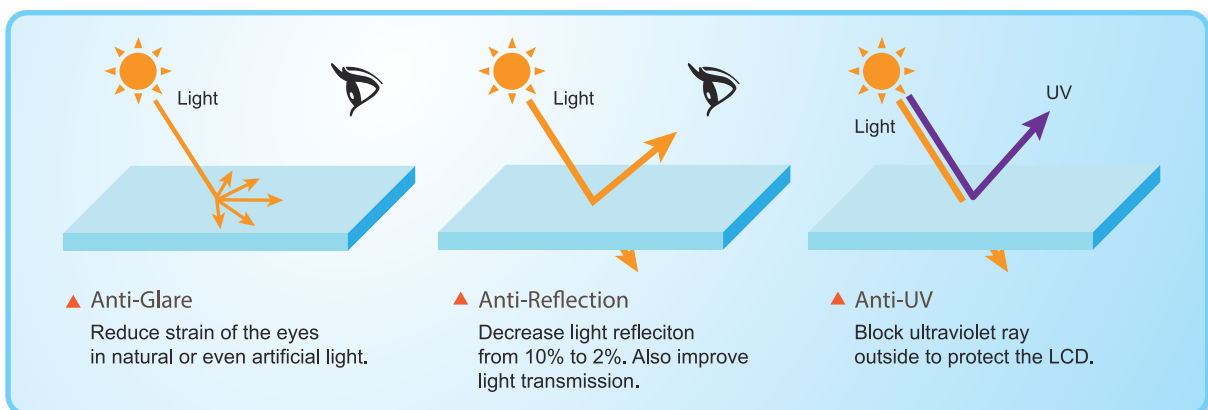
Optical Bonding

With optical bonding, a protective cover glass is directly adhered to the LCD display with a thin, uniform layer of adhesive, effectively eliminating the air gap between the cover glass and display. It perfectly reduces sunlight reflection to increases optical clarity, as well as enhances ruggedness, protect display from dust and moisture, and is thin and lightweight. Especially, It is ideal for applications in large temp. difference environment which can prevent the glass from fogging up and enhance the clarity.



Surface Coating

APLEX provides many options for surface coating, including anti-glare, anti-reflection and anti-UV. It not only gives a user-friendly surface when users are operating our products but also protect the LCD, enhance the quality and durability of our display.



Power-over-Ethernet Solution

APLEX PoE brings you the more convenient, flexible, low-maintenance and cost-efficient Industrial solution.



Less Cable, Easy Configuration



Support Large-screen up to 24" TFT-LCD



High-performance Platform HMI / Panel PC

PoE solution Benefits your Application



Installation-friendly



Cost-effectiveness



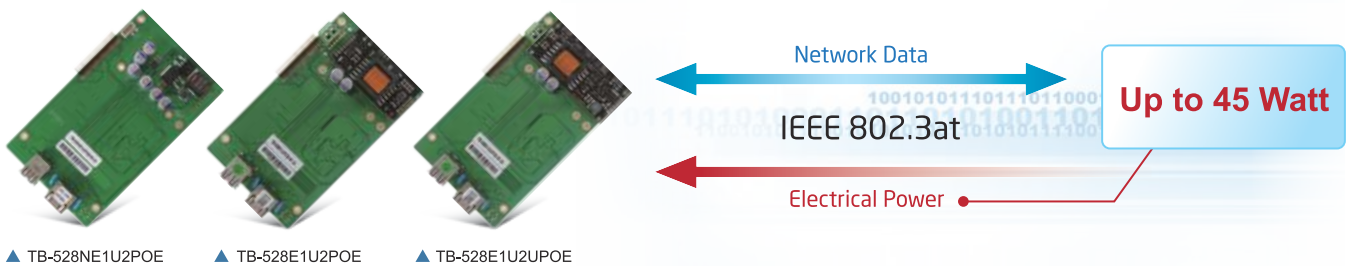
Low maintenance requirement

Through Power-over-Ethernet, power and data will travel down the same Ethernet cable. It only needs a single network cable, gives the simpler and quicker installations, even in hard-to-reach area, APLEX PoE-enabled Panel PC can be easily mounted wherever.

PoE solution gives priority to industrial application. With future needs in mind, by deploying PoE solution, many manufacturers are turning to comprehensive IIoT and Industry 4.0 era. Get a fanless design, great heat dissipation, power efficiency and long-term stability panel PC for achieving the specific requirement, providing a clear choice in industrial application.

Upgrade Path for Industry 4.0 Application

Based on APLEX PoE+ extension modules (TB-528E1U2UPOE and so on), the higher power efficiency is assured to be available up to 45 watt which is suitable for our large-screen and high-performance platform HMI/panel PC/Box PC.



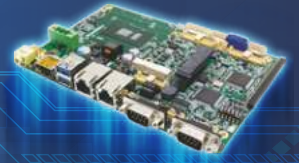
PoE Card / Module	TB-528E1U2POE	TB-528NE1U2POE	TB-528E1U2UPOE	AG5300
Power Consumption Support	up to 25W	up to 25W	up to 45W	up to 25W



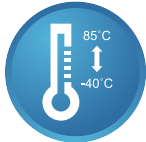
Effectively supported by our large-screen with high-performance HMI/Panel PC

The Most Reliable Motherboards Ever Cover All Your Needs

APLEX Industrial Boards are Ready for Embedded Solutions



APLEX industrial board series is designed to improve the expansibility ability and reliability. It comes with high flexibility encompass abundant I/O connectivity, expansion capability and OS supported. APLEX utilizes its exceptional ability to combine both software and hardware and expand its global market share around the world.



- **Support Wide Range DC Power Input**

Wide range DC power input from 9 to 36V supports a variety of applications, and it allows up to 8A current input with each pin which can be fully compatible with different power supplied environments.

- **High Expansibility**

Flexible expansibility with various I/O boards and riser cards provide additional functions to give your business a comprehensive application.

- **Countercurrent Protection on USB ports**

Avoid systems shutting down caused by the countercurrent from USB devices.

- **Wide Operating Temperature**

Wide operating temperature is ranging from -20 to 70°C/-40 to 85°C for option, enables the boards to be used in extreme harsh environments.

- **Short Circuit Prevention**

Avoid industrial boards to be damaged by the short circuit problem, keep a smooth operation and assure the safety.

Diverse Form Factors



▲ 3.5" ECX



▲ 4" EPIC



▲ Mini-ITX



▲ 5.25" EBX



▲ Core Module

APLEX provides diverse form factors from 3.5" ECX, 4" EPIC to Mini-ITX which are based on x86 and ARM platform. 3.5" ECX board provides complete I/O interface which is suitable for being applied to compact devices, such as thin client or various space-limited devices; 4" EPIC board can be expanded by rich I/O boards; Mini-ITX board can have more functionality by riser cards that provide convenient and flexible expansion ability. All of them are ideal to be applied to panel PC, box PC, HMI and many industrial applications.

APLEX also offers customized products and OEM/ODM services for all-round embedded solutions. As the global industrial computer and embedded board provider, APLEX commits to offer customers the comprehensive products and service to meet their requirements.

High-Flexible Expansion Ability



▲ Riser Card



▲ I/O Board

APLEX's industrial boards are able to be equipped with different expansion modules of riser cards and I/O boards that offer a highly flexible configuration. The expandable I/O interface and slot provide additional functions to give your business the all possible applications, becoming one of the best choice of your embedded solutions.



- A Full Spectrum of Motherboards
- A Broad Range of Industrial Applications
- OEM & ODM Experience
- Time to Market



Place All-around Features on APLEX Industrial Computer



Rugged Enclosure

APLEX's rugged design strengthens the products, giving the longer life cycle. The rugged enclosure includes SUS304/316 stainless steel, Aluminum and engineer plastic. By APLEX stainless steel solution, SUS316 features the most protective construction, servig the anti-corrosion and anti-oxidation enclosure, also it is green material with 100% recycle.



Sunlight Readable Solution

APLEX's sunlight readable solution brings the clear and brilliant visibility under high light condition. It updates the backlight LCD to high brightness (up to 1000 nits), and the brightness can be automatically adjusted. It also drives the adoption of optical bonding and surface coating, giving a user-friendly surface when users are operating. Additionally, in large temp. difference environment, optical bonding is recommended for preventing the glass from fogging up, showing the better clarity.



Thermal Technology

APLEX's thermal technology allows heat to be dissipate through conduction. Without fan design, it takes unique metal as the thermal conductivity to transfer the heat that can spontaneously flows from processor to back cover. It also enables the products to take place somewhere within -20°C-60°C such as hazardous environment. (optical bonding is also recommended in large temp. difference environment)



Wide Power Input

APLEX's wide power input enhances the voltage-carring capability, avoding power failue caused by voltage fluctuations. Bringing the flexibility, convenience, enhancing the stability.

APLEX guarantees the long-term product life cycle, and provides the outstanding quality. We meticulously design each detail of mechanism with innovative technology, giving many solutions that meet different requirements to overcome difficulties. Here are few features that APLEX places importance on.



Control Panel Design

APLEX's control panel design is comprised of multi-touch screen and flat front panel with our excellent panel adhesive technology. The resistive or capacitive touch can perfectly adheres to the LCD, it shows a truly-flat front panel, and prevents the dust and water accumulation.



Waterproof and Dustproof Solution

APLEX's water- and dustproof solution gives the most protective standard, the IP rating, which is based on International standard IEC 60529. APLEX IP66/67/69K rated industrial computers including Panel PC, HMI, Box PC are available for different applications.



Quality Assurance

APLEX passes different certificates for extending the different applications. In addition to ISO-9000/14001, CE/FCC/UL/RoHs safety certificate, MIL810F/IEC60068-2-27 for logisitic managemant; DIN EN 1672-2 and NSF/ANSI/3-A, FDA 21 CFR Part 11 and ANSI/ASME B46.1 for food and beverage industry; ATEX Zone 2/IECEX/C1D2 for oil and gas industry.



OS Support

APLEX has completed Embedded OS support including windows, Linux and Android for both x86 and ARM based system.





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Stainless Steel Panel PC



Considering the most protective standard, stainless steel is the first option due to its good corrosion, heat and impact resistance, it has the high degree of hardness and low maintenance cost. APLEX provides the products with long-term lifecycle for different applications that can be used in extremely harsh environments.

APLEX's stainless steel panel PC product line is both aesthetic and functional; the stainless steel construction, fully IP66/69K water-and dust-proof protection with the flat front panel and projected capacitive multi-touch technology, which is suitable for applications that required highly durable, stiff and sanitary demands.

APLEX is the technology leader in the field of developing stainless steel panel PCs. In order to meet the harsh demands, APLEX will continuously dedicate to the development of comprehensive products, with an emphasis on quality assurance and complete after-sales service.





PhanTAM Series

The new generation Stainless Steel Solution with comprehensively upgraded waterproof and hygienic design



PhanTAM Series

PhanTAM is a new rugged series of stainless steel display and panel PC, which offers all-round features with high-performance 11th Gen. Intel Core i3/i5 processor. It features slim front frame for space-saving, fully waterproof function, gap free-sealing and front bezel with no screws for water, dust and germs ingress. PhanTAM is perfectly designed for factories that require high standards of hygiene, especially for clean room, pharmaceutical, food and beverage industry, which must ensure their sanitation and prevent products from bacteria.



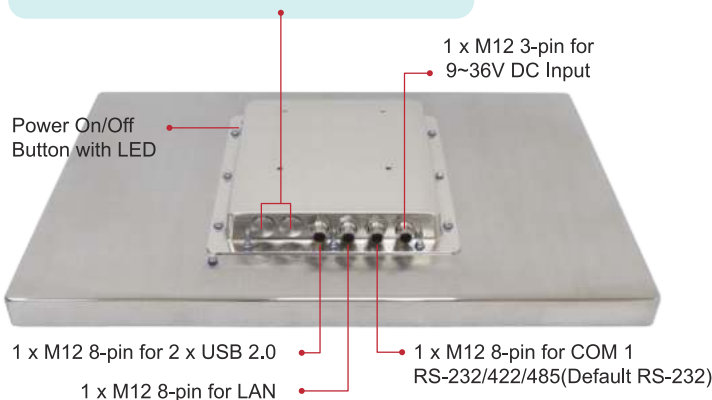
Stainless Steel Rugged Chassis

Stainless steel has various advantages. With its great corrosion resistance and easy cleaning features, it is the perfect material for factories that seem sanitation as a crucial issue. Moreover, it is also durable, long-lasting and cost-saving.

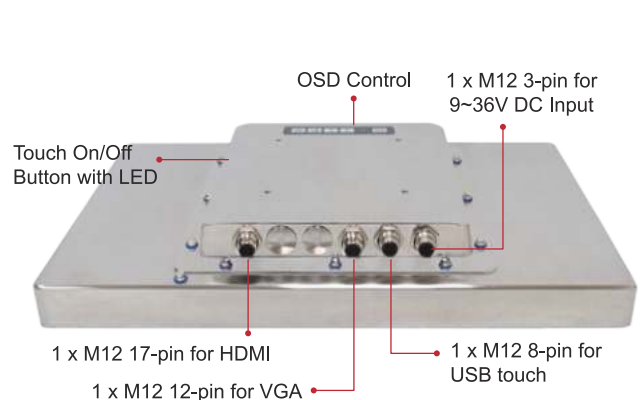
<p>SUS 304/316 Anti-Oxidation</p>	<p>Anti-Corrosion</p>	<p>Easy to Clean</p>	<p>Rugged Enclosure Long Life Cycle</p>	<p>Green Material 100% Recycle</p>	<p>Non-Toxic</p>	<p>Wide Range Temp. Resistant</p>	<p>Low Maintenance Cost</p>
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2 x Blanks for Option:

- 2 x USB 2.0
- 1 x COM
- 1 x USB 3.2 Gen.1
- 1 x LAN
- 1 x CAN
- 1 x HDMI



Panel PC



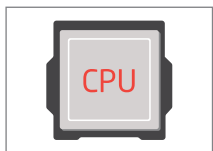
Display

Stainless Steel Enclosure

Smooth Surface

Easy to Clean

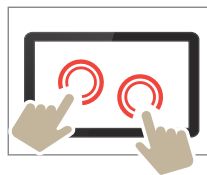
FEATURES



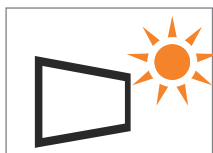
11th Gen.
Intel Core i3/i5



15.6"/ 21.5"
TFT-LCD



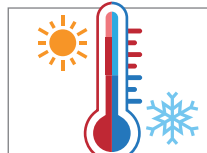
RT / PCT
Multi-touch Screen



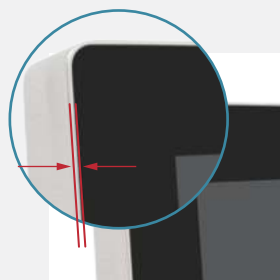
High
Brightness



Auto-dimming

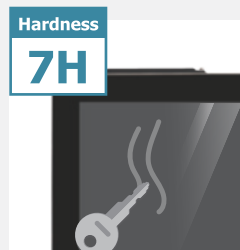


Wide Range Operating
Temperature from 0~50°C



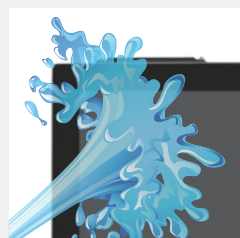
Stylish

- Super Narrow Border
- Slim Front Frame
- Lightweight



Rugged Design

- 7H Hardness
(9H for option)



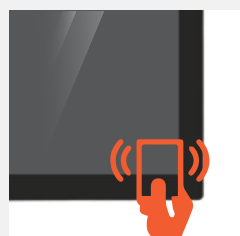
Easy to Clean

- IP66/ IP69K
- Gap-less Sealing
- Smooth Surface
- Fanless Design



Wi-Fi/Bluetooth

- Wi-Fi 6
- Waterproof Antenna Cover



RFID Module

RFID is Essential to Hygienic
Factory by Contactless Operating.



Special Mounting for Versatile

PhanTAM series supports efficient cable management
and space-saving environment. Besides, we also o

Support Different Configuration

Landscape
screen mode



Portrait
screen mode



WATERPROOF & DUSTPROOF SOLUTION

PhanTAM is certified with all-round IP66/ IP69K, which can resist intensive cleaning with high pressure and high temperature water jet. Moreover, with waterproof antenna covers, M12 connectors, hygienic bolts, rubber sealing and completely sealed chassis, PhanTAM can prevent dirt and bacteria from accumulating.

Completely IP Tested



Wireless Antenna Cover



Special Hygienic Component

Hygienic Bolts with Blue Silicone Rubber O-ring



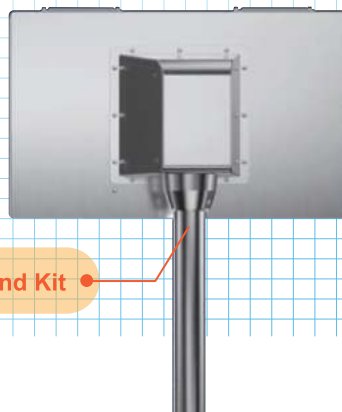
M12 Connectors

Applications

Offer swing arm/ floor stand for cable dressing. It can provide an organized format for system maintenance. Offer VESA 100 x 100 mount to fit in any applications.



Swing ARM Kit



Floor Stand Kit



Wall Mount Kit

Desktop Kit



VESA Mount | 100 x 100









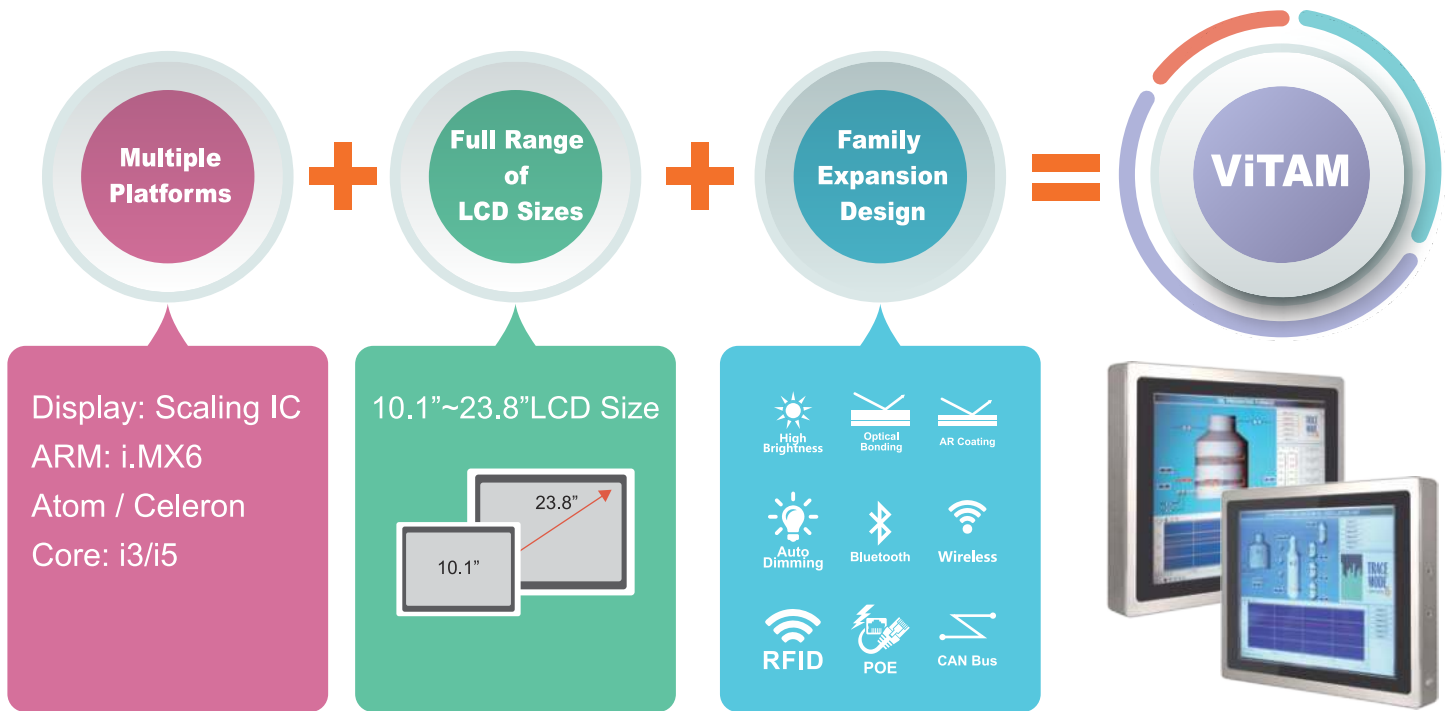
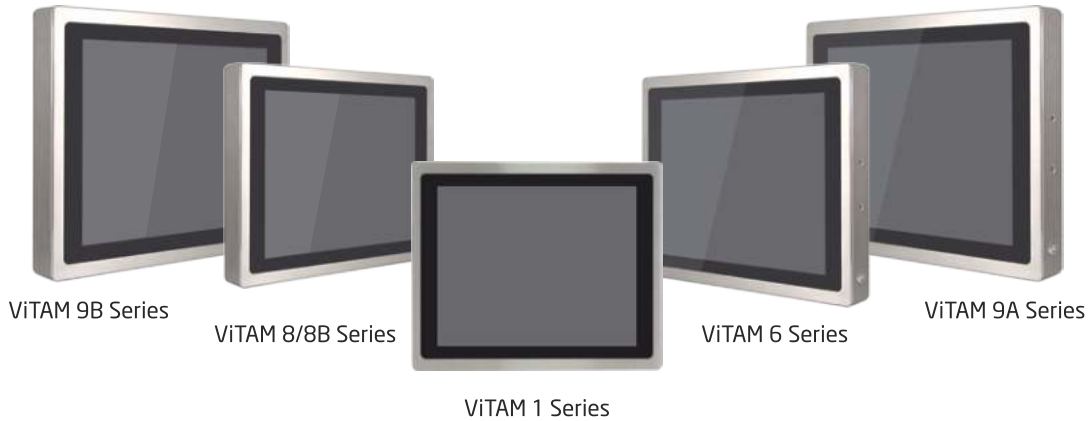
ViTAM

Stainless Steel Panel PC Solutions



The Most Reliable Stainless Steel Panel Solutions Ever

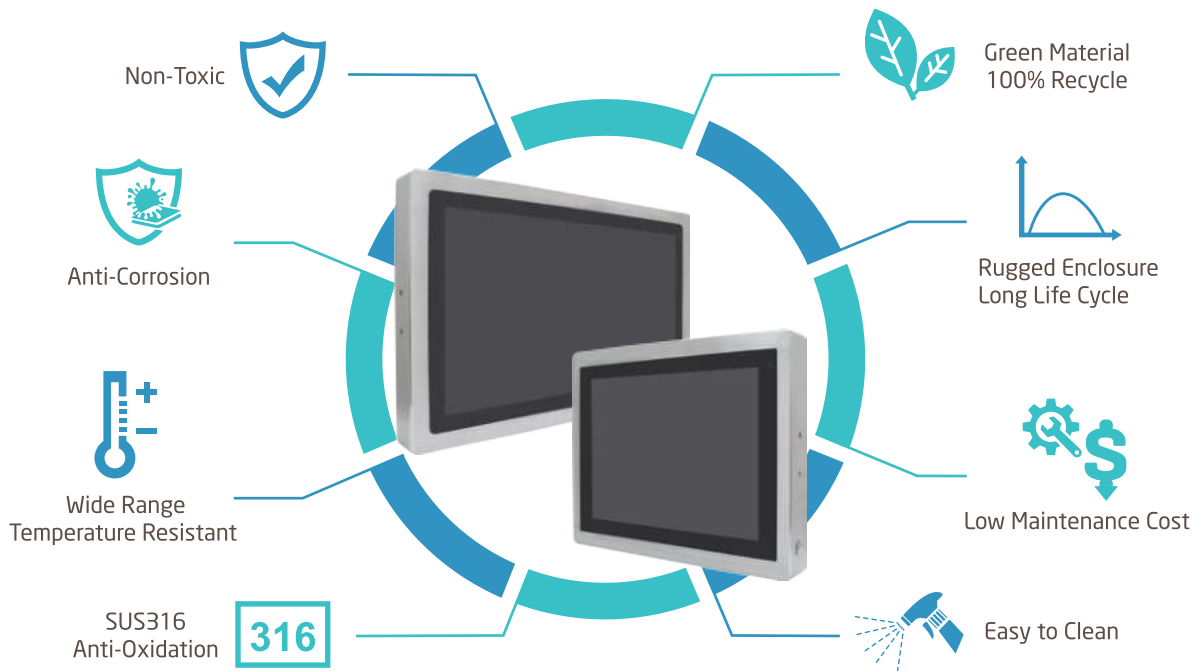
The ViTAM series comes in panel PCs and industrial monitors with all-around features, the Panel PCs are ready for ARM based or X86 based platform which deliver four computing performance levels. ViTAM series brings the most protective panel solution, it goes beyond the basic standard by achieving all IP66 and IP69K-certified with M12 connectors which is capable of withstanding the high-pressure water washing down and preventing the machine from dust accumulation. All is designed for a wide range of industrial applications including food/beverage, chemical, factory automation and other high standard environment. The further information is illustrated below:



VERSATILE MOUNTING



WHY STAINLESS STEEL ?



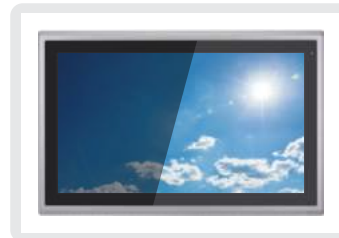
Sanitation is a serious issue of food/beverage industry so it is necessary to do the intensive cleaning to maintain the hygienic environment. Stainless steel is the first option in food and beverage manufacturing industry due to its cleanability, high corrosion resistance, and germ-resistant which can prevent the food/beverage from bacterial poisoning and will not damage people's health.

FEATURES HIGHLIGHT



Wide Range DC 9~36V Power Input

DC 9~36V wide range power input brings the advantage of flexibility and reliability in case the voltage of equipment is different or unstable.



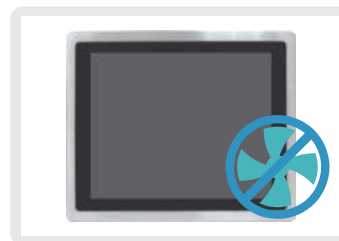
Sunlight Readable Solution

Surface coating are provided, and the brightness can be automatically controlled up to 1000 nits based on the light condition. Optical bonding is recommended in large temp. difference environment which can prevent the glass from fogging up.



PCT Multi-touch Screen with 7H Anti-scratch Surface

All series equipped with multi-touch for the exclusive requirement and 7H anti-scratch interface for the tough protection.(PCT model)



Fanless Design

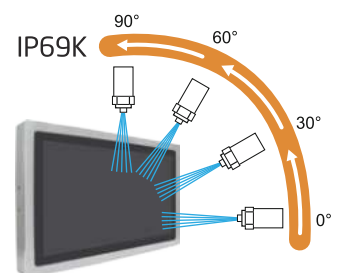
Fanless design for easily maintaining the equipment. Preventing from accumulating dust.



0~50 °C
-20~60 °C for option

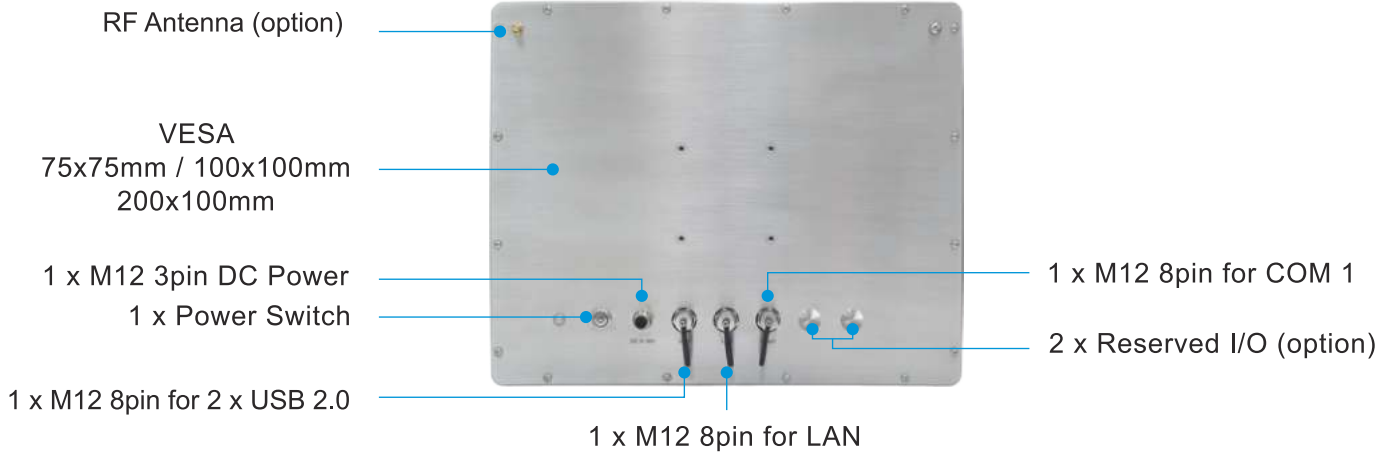
(*Optical bonding is also recommended)

APLEX ViTAM series all passed wide range temperature and IP66/69K testing.



100 Bars at 80 degrees C

ViTAM Panel PCs



ViTAM Display



* It is recommended to add one HUB to enhance the signal for USB3.0 while you select the optional M12 to USB 3.0 extended cable is longer than one meter.

ViTAM Series Informantion (Standard)

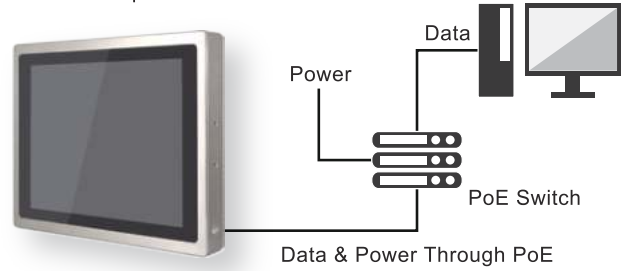
Capacity	ViTAM-1	ViTAM-6	ViTAM-8	ViTAM-8B	ViTAM-9A	ViTAM-9B
Category	Monitor	Web HMI (i.MX6)	Client (N2930)	Client (J6413)	Master (6th Gen. Core i)	Master (8th Gen. Core i)
Touch Screen	Projected Capacitive Touch / Resistive Touch / Glass					
Size	10.1"~23.8"	10.1"~15", 21.5"	10.1"~23.8"	10.1"~23.8"	15"~23.8"	15"~23.8"
System Memory	-	Onboard 1GB DDR3 SDRAM	Onboard 4GB DDR3L SDRAM, up to 8GB	1 x SO-DIMM DDR4 slot, up to 32GB	1 x SO-DIMM DDR4 slot, up to 16GB	2 x SO-DIMM DDR4 slot, up to 64GB
Storage	-	Onboard 4GB eMMC NAND Flash	1 x 2.5" SATA3 HDD	1 x 2.5" SATA3 HDD 1 x M-Key 2280 for SSD	1 x 2.5" SATA3 HDD	1 x 2.5" SATA3 HDD 1 x B-Key 2280 for SSD
OS Support	-	Android 6.0.1, Linux kernel 4.9.88	Windows 10 IoT ENT LTSCB			
Certificate	CE / FCC Class A					

Expansion Capability



PoE Module

- Cost savings in network installation & energy management
- Flexible and ideal for remote control management
- No need for power cables



RFID Module

- Read-write module enables data to be changed over time
- Built in IP66 waterproof design
- External Cableless



CAN bus Module

TB-528CAN2:

- 2 x USB 2.0, 2 x CAN,
- 2 x COM (RS-232), 1 x Mini-PCIe,
- 1 x SIM slot



TB-553CAN2 (TB-215)

- 2 x CAN
- Support CANopen Protocol



Motherboards

AD board



TB-528 series

- **TB-528U4:** 4 x USB 2.0
- **TB-528U4ME1:** 4 x USB 2.0, 1 x Mini-PCIe, 1 x SIM slot
- **TB-528C1U2:** 1 x COM (RS-232), 2 x USB 2.0
- **TB-528C1U2P1:** 1 x COM (RS-232), 2 x USB 2.0, 1 x Power Button
- **TB-528C2:** 2 x COM (RS-232)
- **TB-528C2ME1:** 2 x RS-232, 1 x Mini-PCIe slot, 1 x SIM slot
- **TB-528C2I:** 2 x RS-422/RS-485, Isolated
- **TB-528E1U2:** 1 x LAN, 2 x USB 2.0
- **TB-528NE1U2POE:** 1 x LAN(25W non-isolated PoE PD), 2 x USB 2.0 type A
- **TB-528E1U2UPOE:** 1 x LAN(45W isolated PoE PD), 2 x USB 2.0 type A
- **TB-528E1U2POE:** 1 x LAN(25W isolated PoE PD), 2 x USB 2.0 type A

ViTAM Optional Selection Guide

Capacity	Series Name	ViTAM 1	ViTAM 6	ViTAM 8	ViTAM 8B	ViTAM 9A	ViTAM 9B
PoE		NA	●	●	●	●	NA
RFID		NA	●	●	●	●	●
CAN		NA	●	●	●	●	●
Dimming		● (Except 19"/23.8")	● (Except 19"/23.8")	● (Except 19"/23.8")	● (Except 19"/23.8")	● (Except 19"/23.8")	● (Except 19"/23.8")
High Brightness (1,000 nits)		●	●	●	●	●	●
Optical Bonding		●	●	●	●	●	●
AR Coating		●	●	●	●	●	●
Wi-Fi / Bluetooth		NA	●	●	●	●	●
SUS316 Enclosure		●	●	●	●	●	●



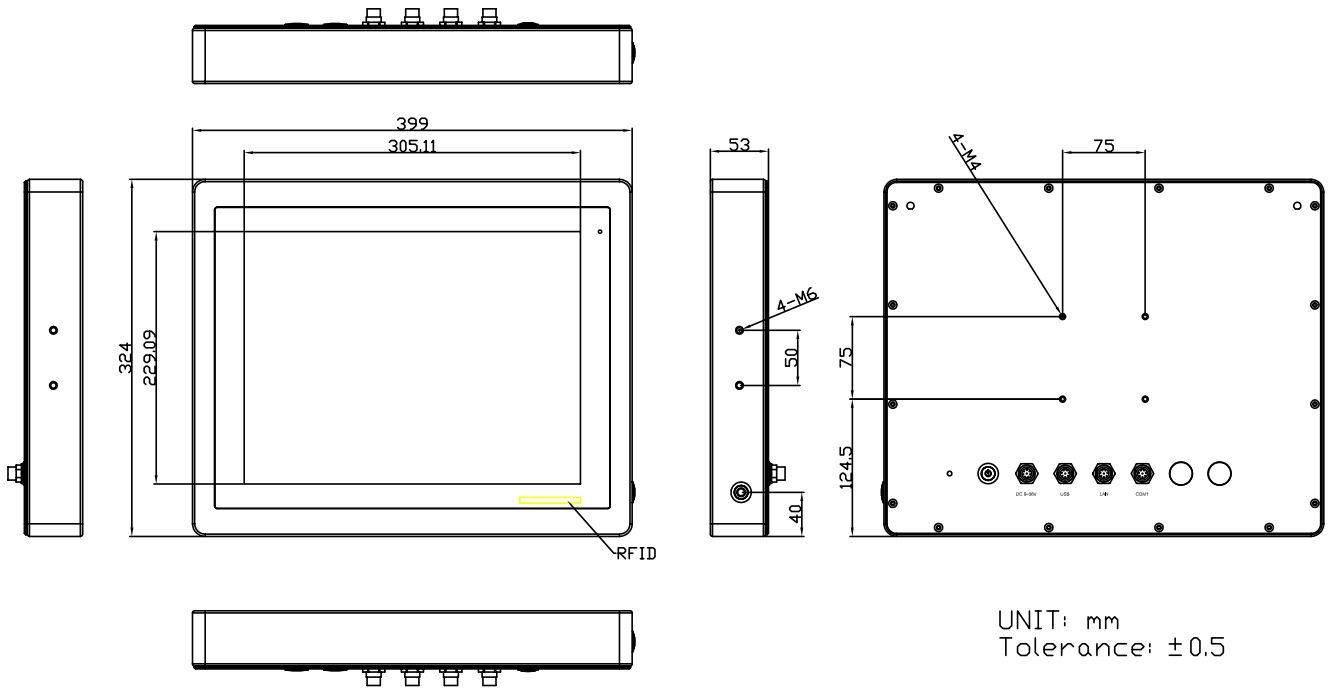


Specifications





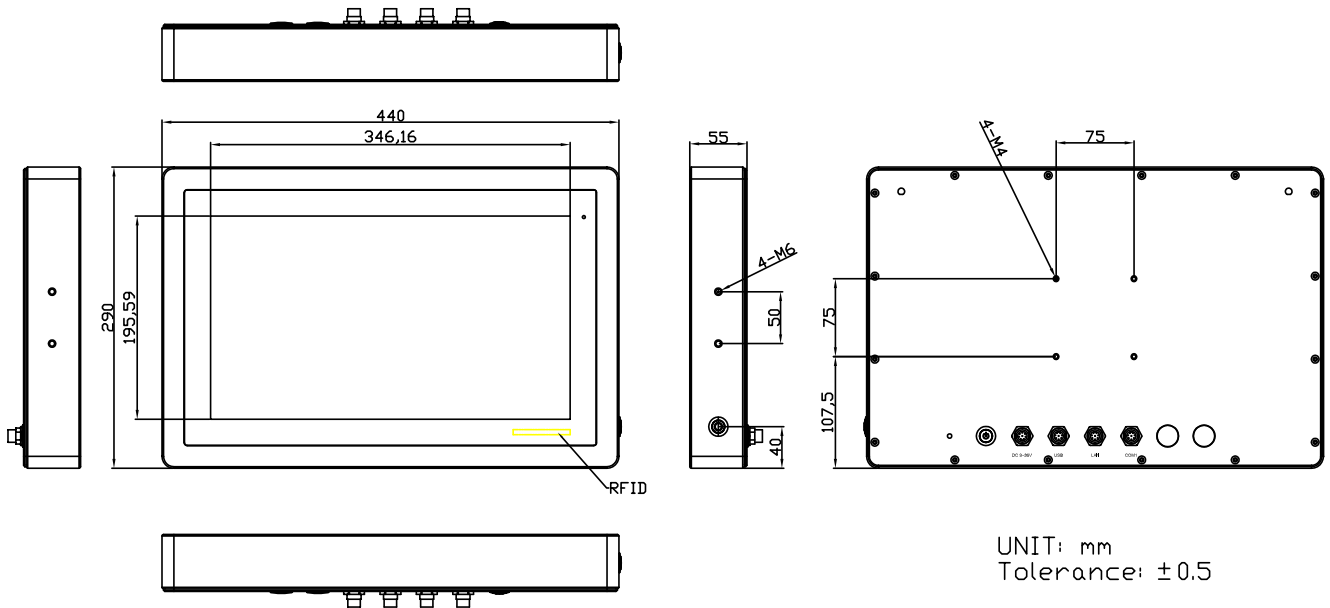
ViTAM-915B P/R(H)



UNIT: mm
Tolerance: ±0.5

unit:mm

ViTAM-916B P/R(H)



UNIT: mm
Tolerance: ±0.5

unit:mm











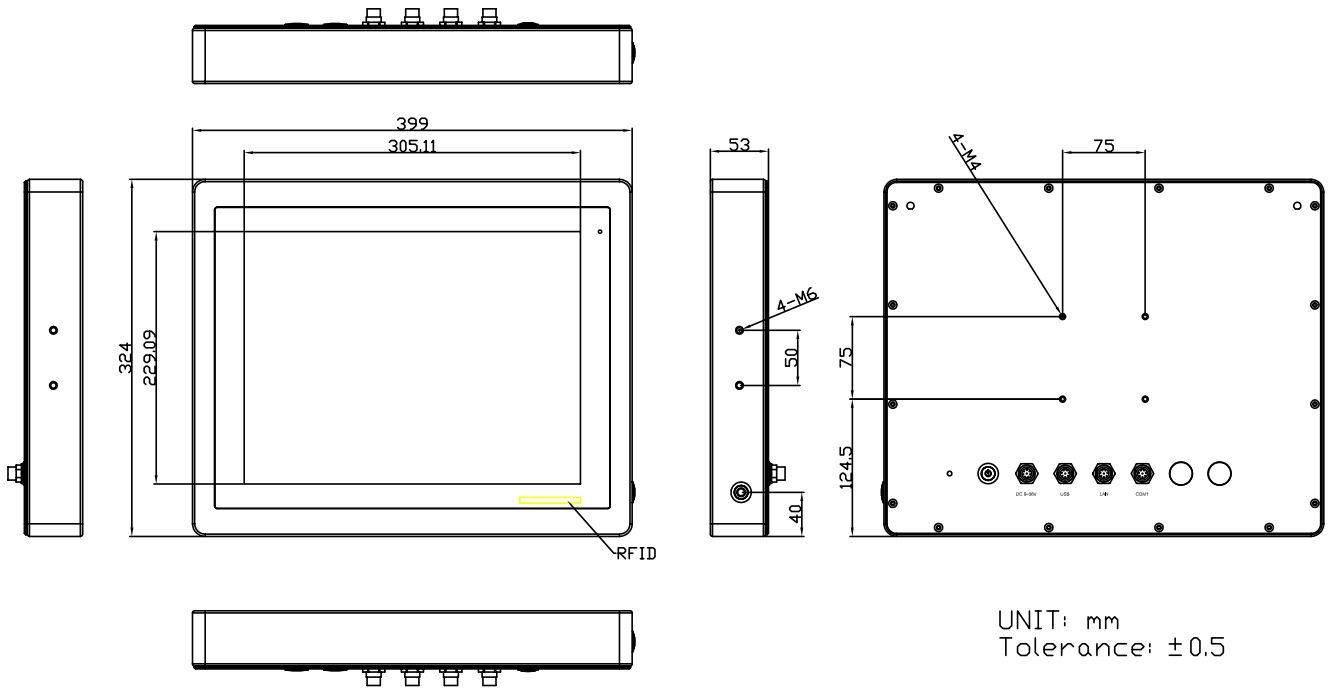


Specifications





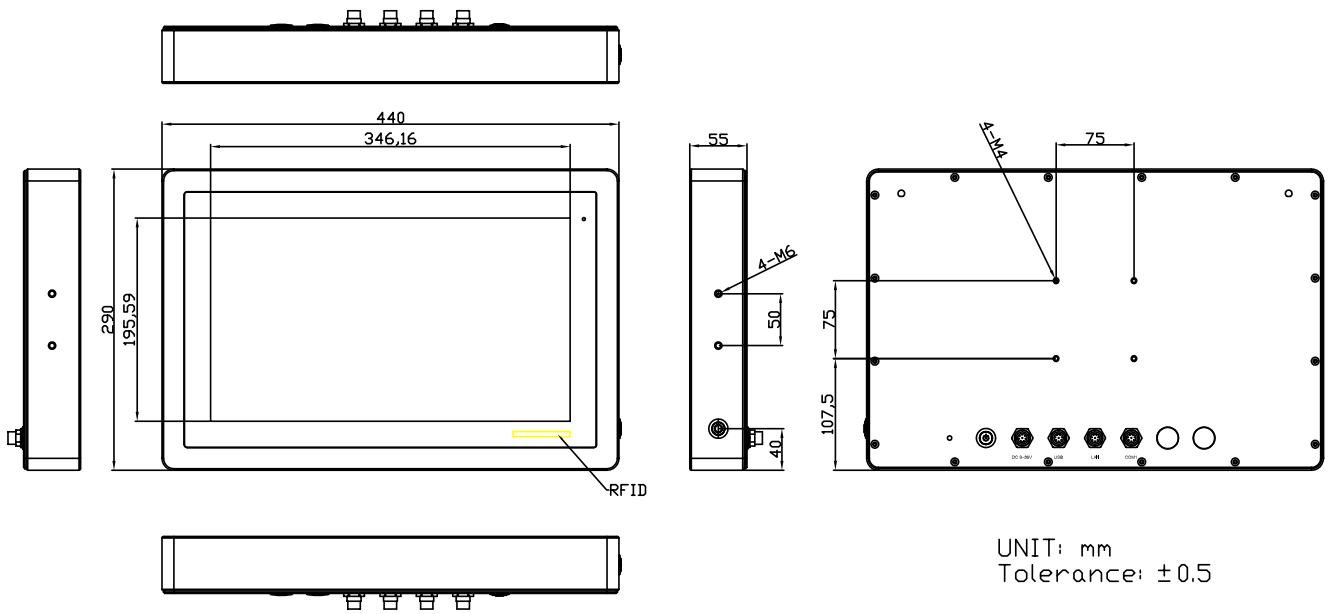
ViTAM-915A P/R/G(H)



UNIT: mm
Tolerance: ±0.5

unit:mm

ViTAM-916A P/R/G(H)



UNIT: mm
Tolerance: ±0.5

unit:mm





unit:mm

unit:mm







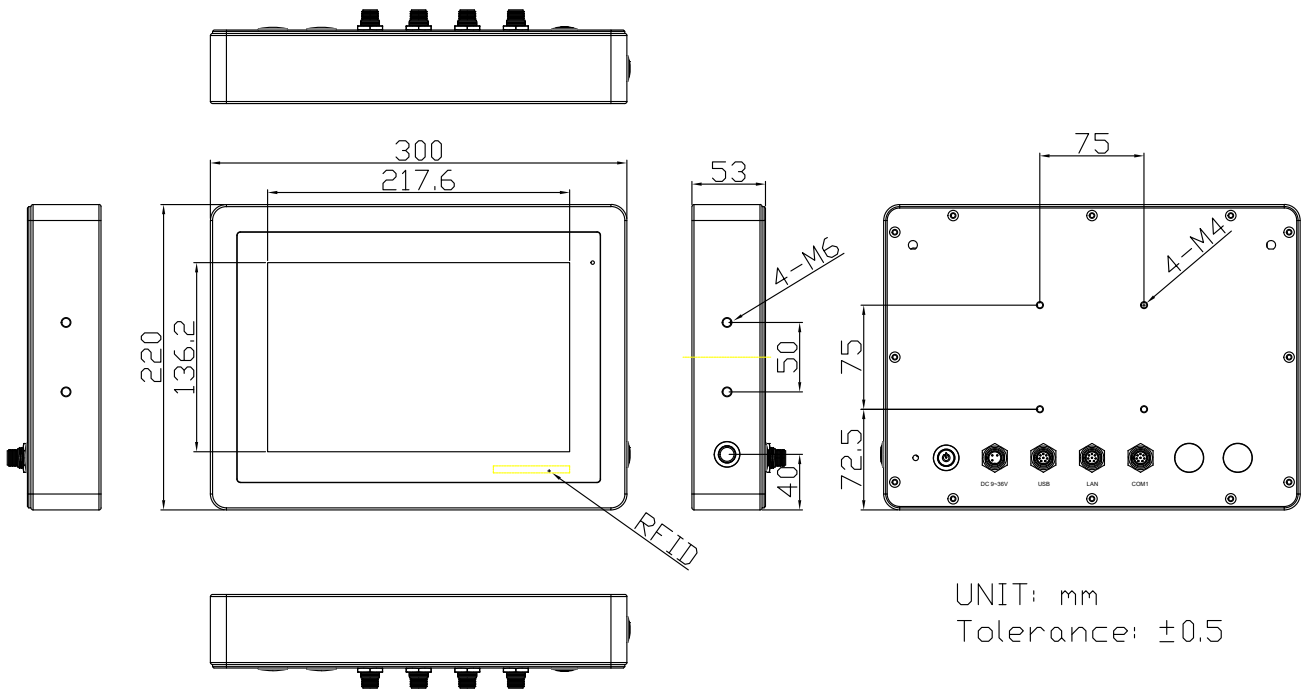


Specifications



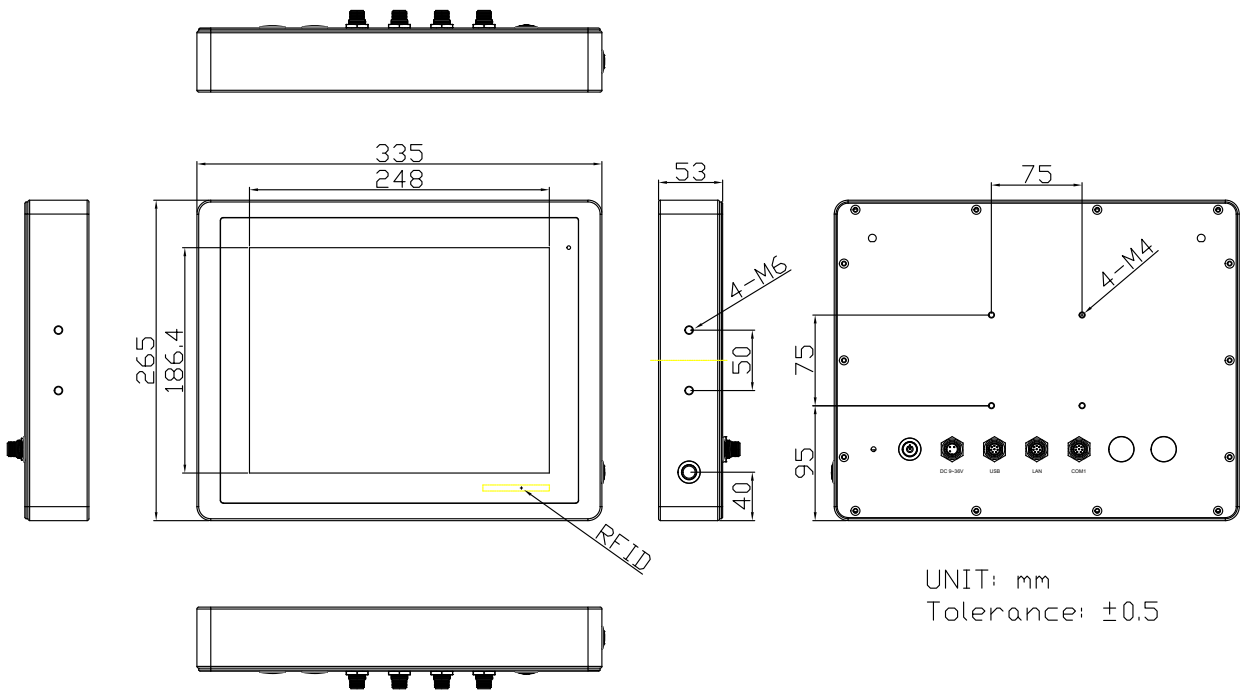


ViTAM-810P/R/G(H)



unit:mm

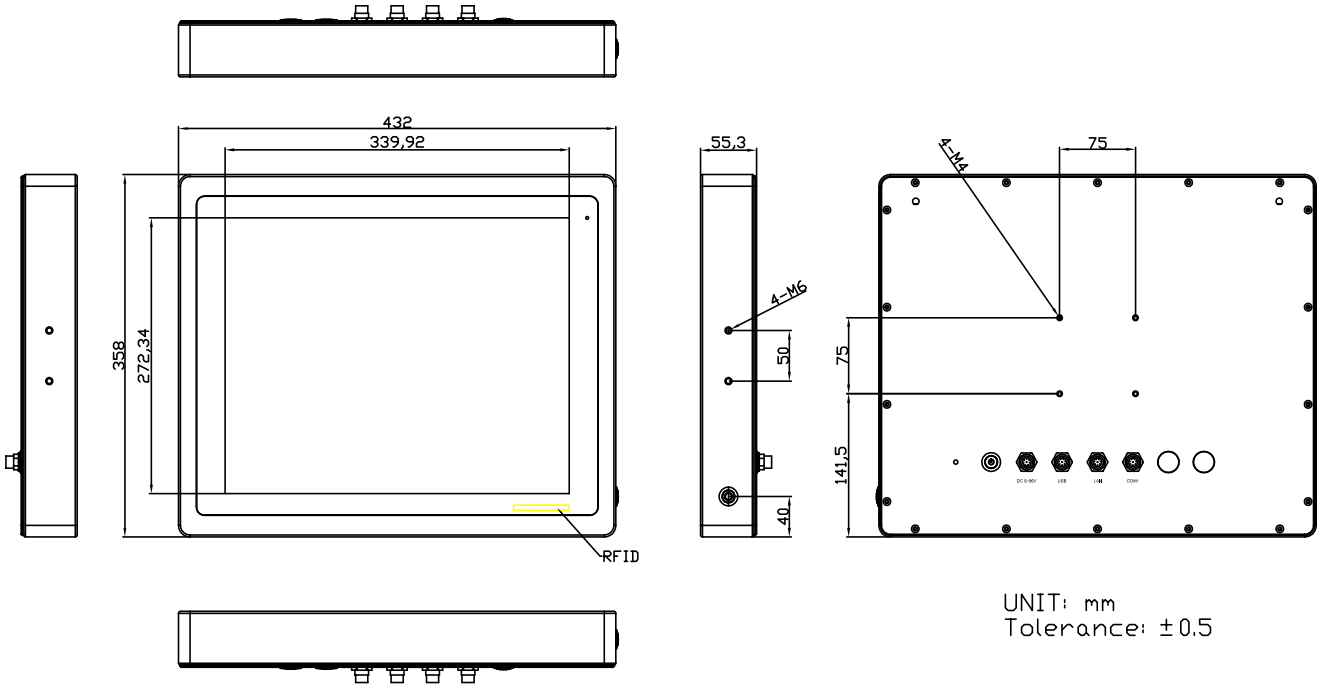
ViTAM-812P/R/G(H)



unit:mm

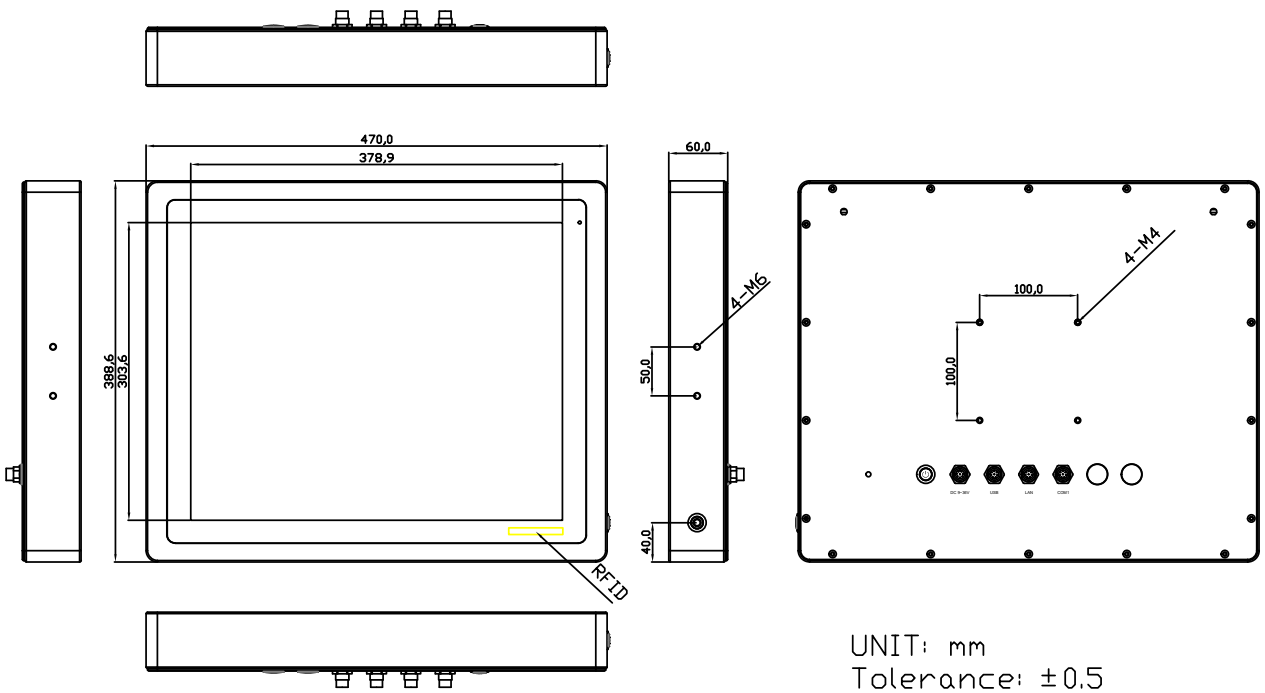


ViTAM-817P/R/G(H)



unit:mm

ViTAM-819P/R/G(H)



unit:mm

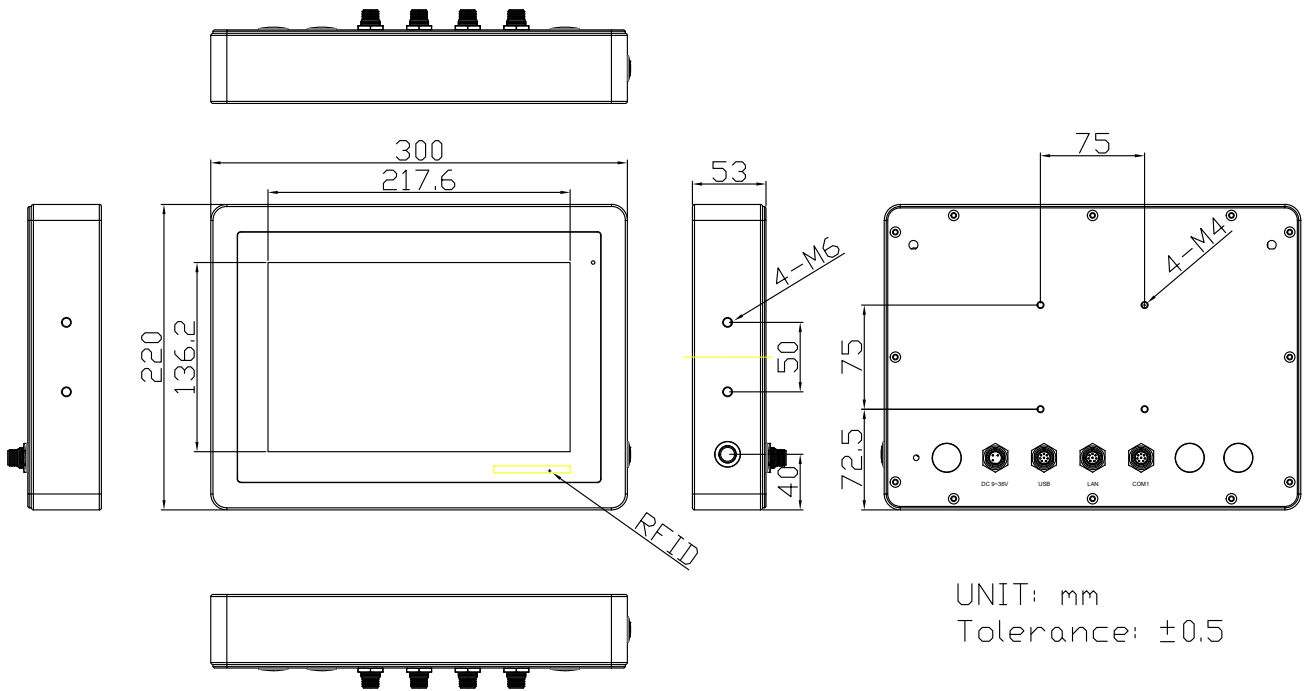






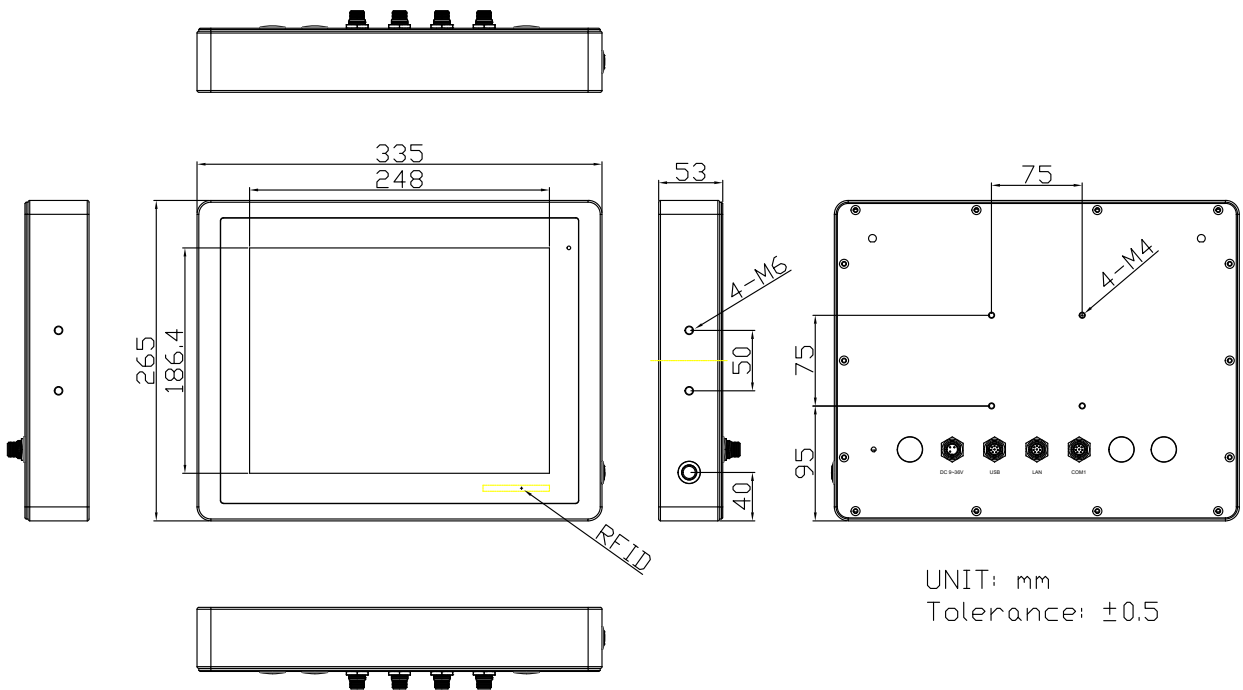


ViTAM-610P/R/G(H)



unit:mm

ViTAM-612P/R/G(H)



unit:mm



Ordering information

Model NO.	Description
ViTAM-610P	10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter
ViTAM-610R	10.1" WXGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter
ViTAM-610G	10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter
ViTAM-610PH	10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-610RH	10.1" WXGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-610GH	10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-612P	12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter
ViTAM-612R	12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter
ViTAM-612G	12.1" SVGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter
ViTAM-612PH	12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-612RH	12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-612GH	12.1" SVGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD

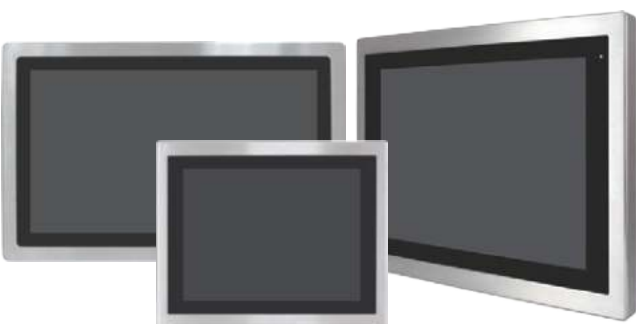
Model NO.	Description
ViTAM-615P	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 9~36V DC power input with Adapter
ViTAM-615R	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter
ViTAM-615G	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 9~36V DC power input with Adapter
ViTAM-615PH	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-615RH	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-615GH	15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-621P	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 12~36V DC power input with Adapter
ViTAM-621R	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 12~36V DC power input with Adapter
ViTAM-621G	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 12~36V DC power input with Adapter
ViTAM-621PH	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 12~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-621RH	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 12~36V DC power input with Adapter, 1,000 nits LCD
ViTAM-621GH	21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 12~36V DC power input with Adapter, 1,000 nits LCD

Built for Hazardous Environments



AEx Series

- ▶ AEx-8XXP(H)
- ▶ AEx-9XXAP(H)
- ▶ AEx-2410/2411
- ▶ AEx-1XXP(H)



AEx Series

Pave the Way for Intelligent Oil and Gas Industry



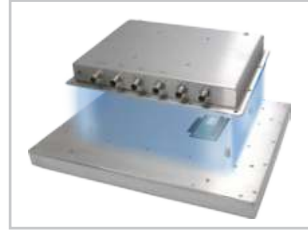
APLEX AEx series is the solution for harsh condition of exposure to gas and vapor. The AEx series comes in panel PC (AEx) computing performance required in the harsh



SUS316 Stainless Steel for Anti-corrosion



IP66 Grade Waterproof Protection with M12 Connectors



Modular Design for Easy Maintenance



Projected Capacitive Touch Supported

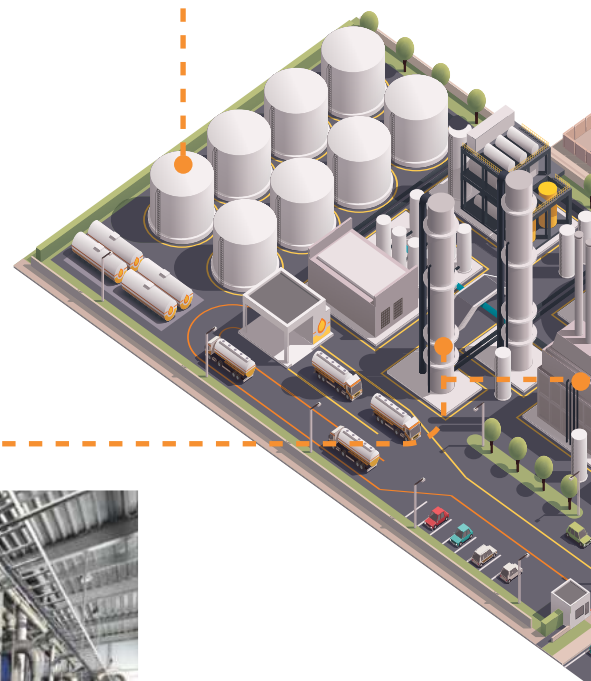
Size Selection: 15", 16", 19", 21.5" LCD

- ATEX Zone2/Zone22, IECEx and C1D2/C2D2 Certificate
- 6th Gen. Intel Core i5/i3 processor (AEx-9XXAP(H) series)
- Intel Celeron Processor N2930 (AEx-8XXP(H) series)
- Wide Range DC 9~36V Power Input
- Support Panel Mount & VESA Mount
- Support Projected Capacitive Touch
- Full Flat Bezel and Fanless Design
- Modular Design

AEx-2410/2411 + AEx-1XXP(H) series Asset Monitoring and Inspection / Data Collection



Collecting data from oil pipe/tank via Box PC, workers enable to inspect and monitor the information via Display.



AEx-8XXP(H)/9XXAP(H) Series Equipment Real-time Controlling

In small control room of oil and gas industry, controlling power on/off button is equipped for adjusting (order of oilpipe), maintenance and emergency.



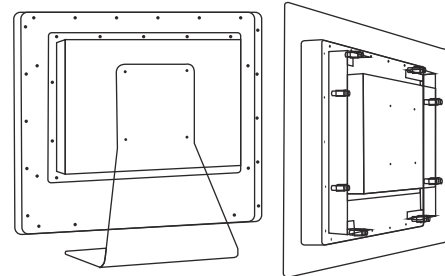
arduous environment. It is capable of withstanding vibration, shock, corrosion and can operate under the

x-8XXP/9XXAP), display (AEx-1XXP) and box PC (AEx-2410/2411) which are packed with different level of
arshest environment applications.



DC 9-36V 2 x USB 2.0 1 x GbE LAN RS-232/422/485 COM1 VGA GbE LAN

Optional I/O:
(1) 1 x USB 3.0
(2) 2 x USB 2.0
(3) 1 x RS-232



VESA Mount 100 x 100 mm

Panel Mount

▲ Sunlight Readable Solution

▲ Variety of I/O Applications

▲ Mounting Application

AEx-8XXP(H)/9XXAP(H) Series Central Control Room

Multiple panel PCs are presented in control room to deal with every situation 24/7.



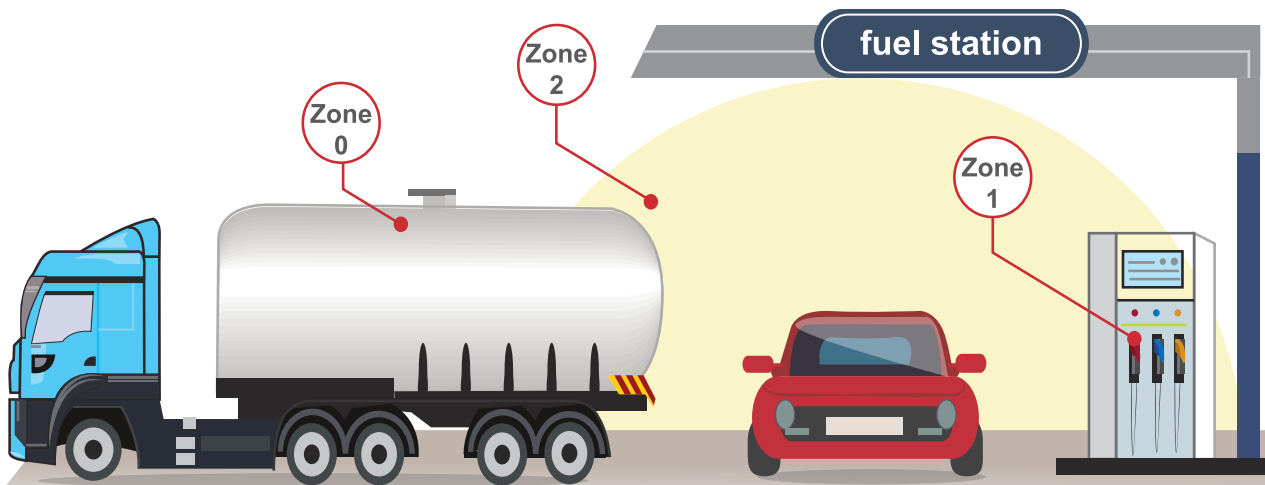
AEx-2410/2411 Box PC series Data Gateway / Communication / Notification

Collecting data from dangerous field.
EX. Personnel access, Vehicle control,
equipment temp and air pollution monitoring



ATEX Safety Certification solutions is well-prepared for Hazardous Environment Applications

In potentially explosive atmosphere, the explosion can be occurred when three elements exist: Flammable and combustible substances, Comburents, Ignition source. The equipments in this environment strictly are required the high safety certification to ensure that each stage operates accurately. APLEX AEx series solutions meet ATEX/IECEX/C1D2/C2D2 certificate for intrinsic safety that can be greatly used in Ex-area.



- **Zone0:** an explosive atmosphere is present continuously for long periods of time or will frequently occur.
- **Zone1:** an explosive atmosphere is likely to occur occasionally in normal operation.
- **Zone2:** explosive atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.
- **Zone22:** combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.
- **C1D2 / C2D2:** provide protection from sparks or flames, to prevent explosions.

Explosion Group		Examples Depending on - Explosion Group - Temperature Class				
IIA	IIB	IIC	Ammonia	Ethanol	Petrol	Acetaldehyde
			Methane	Cyclohexane	Diesel Fuel	
			Ethane	n-butane	Fuel oil	
			Propane		n-hexane	
			City Gas	Ethylene	Ethyl Glycol	Ethyl Ether
			Acrylic	Ethylene Oxide	Carbon	
			Nitrile		Hydrogen	
			Hydrogen	Acetylene		Carbon Disulphide
			T1<450°C			
			T2<300°C			
			T3<200°C			
			T4<135°C			
			T4<135°C			
			T6<85°C			



AEx series
ATEX and IECEx Marking:
II 3 G D Ex ec ic IIC T4 Gc
II 3 G D Ex tc IIIC T135°C DC

- II** Equipment Group II
- 3** Equipment Category, Zone2/Zone22
- G** Environment, Gas
- D** Environment, Dust
- Ex** Explosion-proof Equipment Identification
- ec (ic)/tc** Type of Protection
- IIC/IIIC** Explosion group, Gas (IIA, IIB ,IIC)/ Dust (IIIA, IIIB ,IIIC)
- T4/T135°C** Temperature Class (T1-T6)
- Gc** Equipment protection class

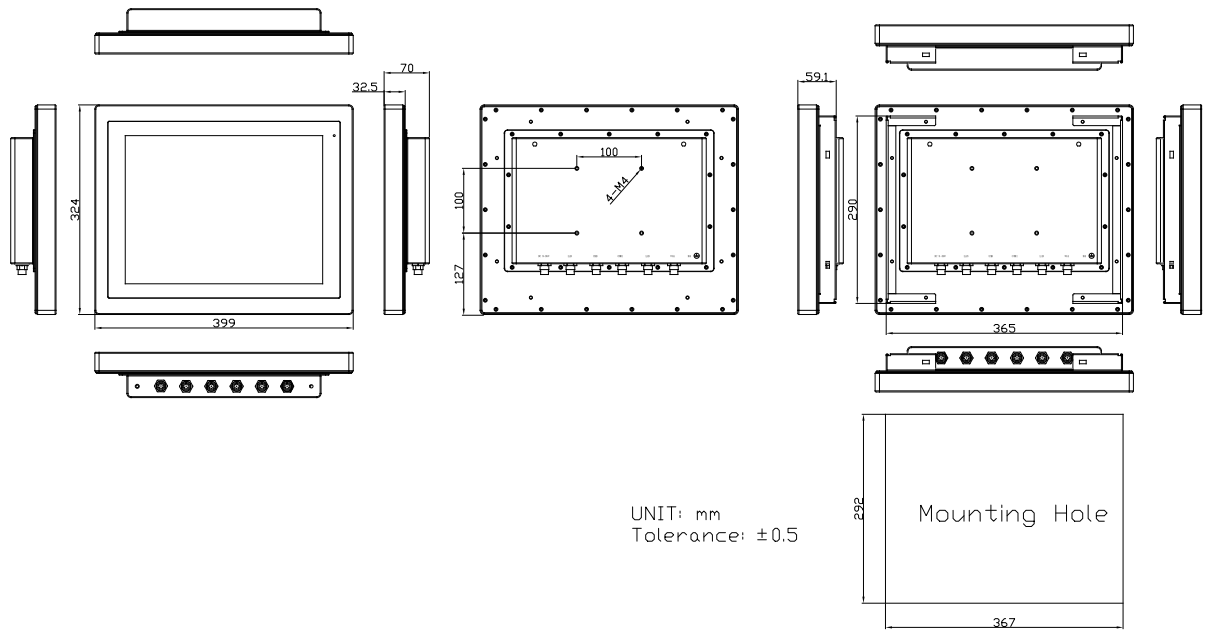


Specifications

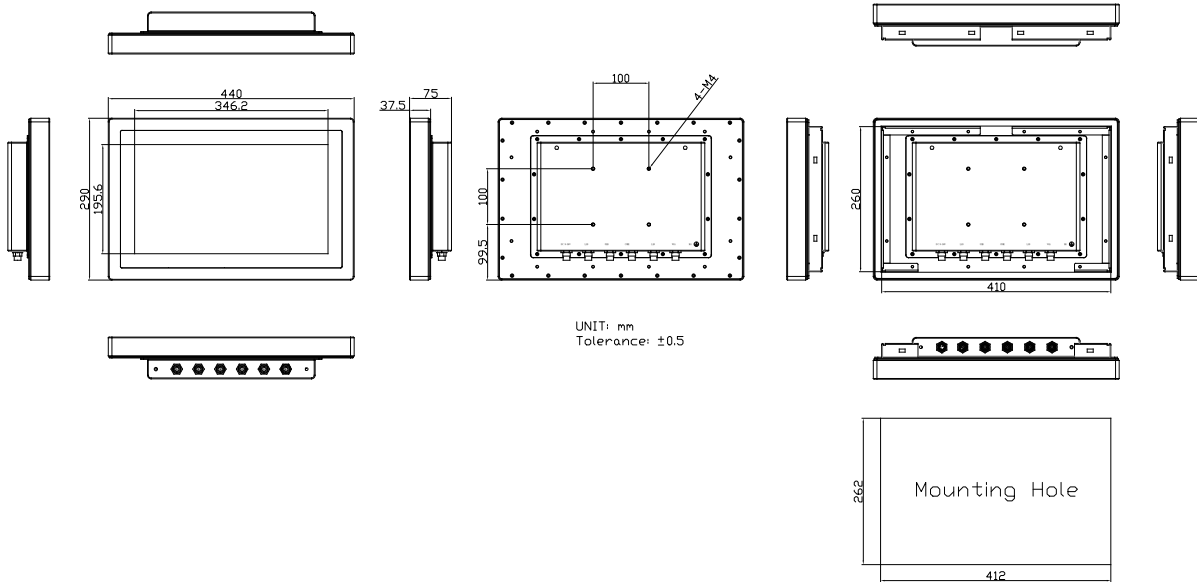




AEx-915AP
AEx-915APH



unit:mm



unit:mm

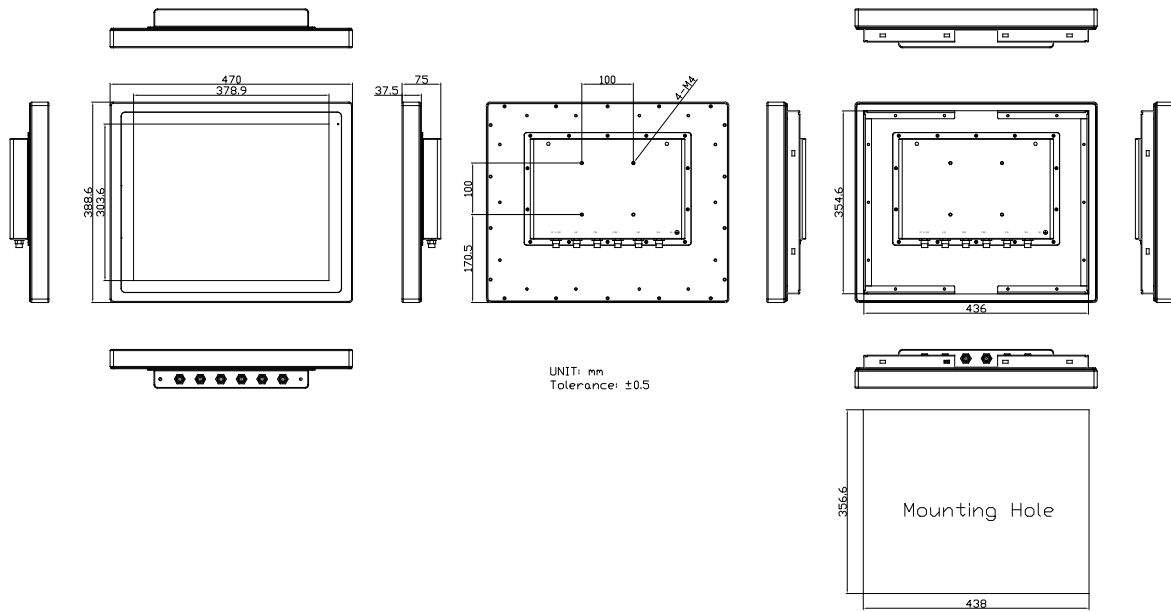






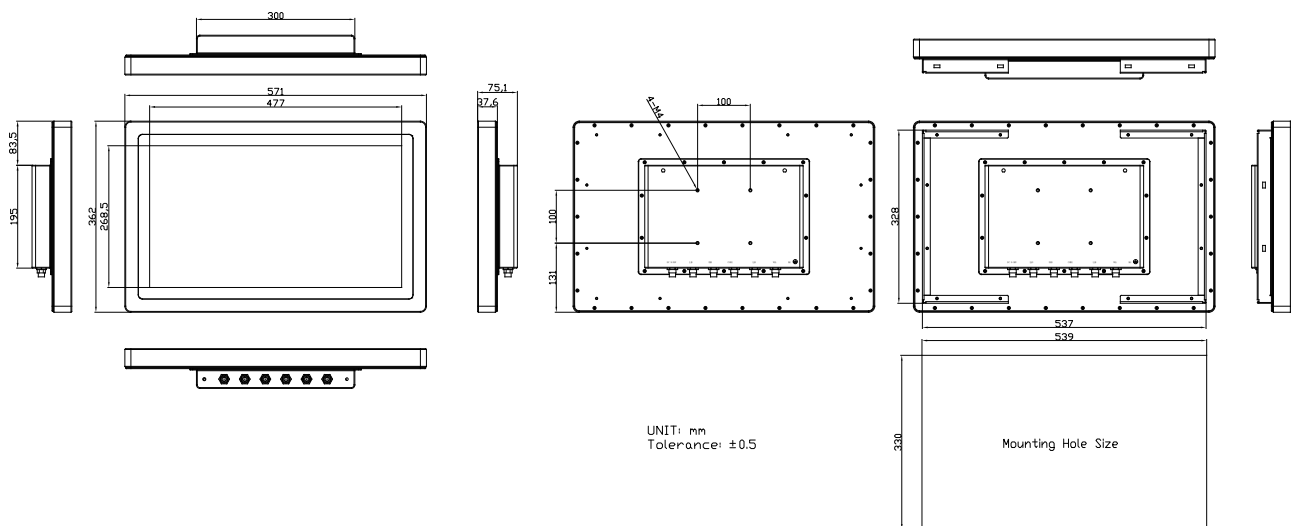


AEx-819P
AEx-819PH



unit:mm

AEx-821P
AEx-821PH



unit:mm



Specifications





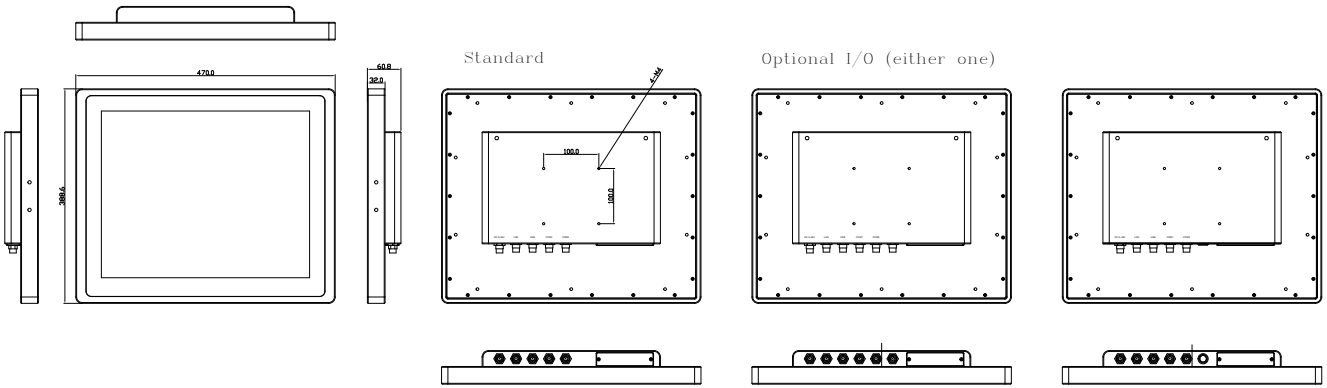


Specifications

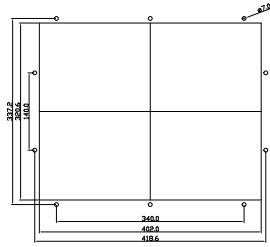




APC-3994P/R



Mounting Hole Size UNIT: mm Tolerance: +0.5





Panel PC

As the advancements in big data, factory digitally turns into “Smart” by using self-optimization, self-configuration and even artificial intelligence. Industry 4.0 extends the M2M scale and IoT deployments to further improve monitor and communication within systems, providing the users with real-time system interactions, and brings the much higher level of automation to complete complex tasks.

APLEX’s panel PC delivers exceptional computing performance, designed for use in harsh industrial environments. For different application requirements, these product lines provide different water-and dust-proof rated protection such as IP65/IP66/IP69K neither at front panel or whole machine. APLEX’s panel PC aims to bring many industries into smart, not only for factory automation but also logistic, in-vehicle management, as well as marine application. APLEX urged to provide comprehensive panel pc solution and push new opportunities and benefits to deliver cost-efficiencies and first-rate quality.



VIPAC Series

**New Generation Industrial Panel PC
For Being Ahead of Industry 4.0 & IIoT**



**INDUSTRIAL
INTERNET
OF THINGS**

Combine Data-acquisition and Archiving, Analysis, Reporting

Automation systems are required more data storage, need to be more user-friendly, be able in the industry to use industrial PCs as automation controllers.

APLEX new generation panel PC mainly focuses on the mainstream industrial control, factory data storage, signal control, surveillance security system.



High Productivity

Through automation, it increases efficiency that the processes can be implemented without intervention. By x86 based processor ViPAC series enhances the overall performance and efficiency of data transfer processing and system response, and it enables you to produce more within the same amount of time then to save time and money.



Integration

ViPAC series has integrated input/output functionalities, including standard, optional I/O interface, and rich expansion slot. ViPAC is capable of horizontal and vertical integration through many operations simultaneously, and holistically integrating the entire value chain.



Connectivity

ViPAC series fast communication enables easier sharing and communication between computer programming and equipment, including WiFi/BT/3G/4G LTE and antenna, as well as embedded RFID. ViPAC series ensures to keep in touch with each part of the operation between basic actuation and advanced control systems.



Control

Remote Monitoring &



Supervisory Control and Data Acquisition



Visual

Factory Automation



Surveillance Security System



Smart Manufacturing



and Computing Ability with ng, and Display Capabilities

to communicate with each other and require an open standard. There is an increasing trend
ry automation application, as well as professional applications such as large data collection,



Flexibility

VIPAC series brings the flexibility to use, and easy and quick servicing and maintenance of products. Its modular design lowers lead time, expanding the capabilities of a hardware solution, it also enables quick and easy upgrades to evolve depends on either technology or user improvement.



Scalability

VIPAC series scales the industrial control, factory automation application, and professional applications from large data collection and storage, signal control to surveillance security system.



Long-term Availability

Continuously produce products to extend the availability and withstand the usage. Provide long-term support for maintenance, repair and upgrade.

Control Room

& Advanced Controlling



lization



Data Processing

Food & Beverage Industry



Warehouse Management



Large Data Collection





ViPAC Series

15", 15.6", 17", 21.5" TFT LCD Panel PC

ViPAC series, comprised of ViPAC-9 and ViPAC-8. These systems are powered by high-performance Intel 6th/7th Gen. Core i3/i5/i7 processors (codename: skylake / kabylake) and Intel Celeron N2930 CPU for different demanding performance requirements. Both series are characterized by Aluminum front bezel with hairline surface design; they are available in either wide screen (16:9) or traditional (4:3) aspect which comes in sizes 15"/15.6"/ 17"/ 21.5" LCD with the resolution up to 1920 x 1080 (Full HD), and 7H anti-scratch surface. This trend-setting panel PC solution is perfectly suitable for all tasks in the industry of PC-based automation.



ViPAC-8 Series	ViPAC-9 Series
Intel Celeron N2930	Intel 6th/7th Core i3/i5/i7
Modular Concept with Fanless Design	Modular Concept with Fan Design



15"~21.5" TFT-LCD



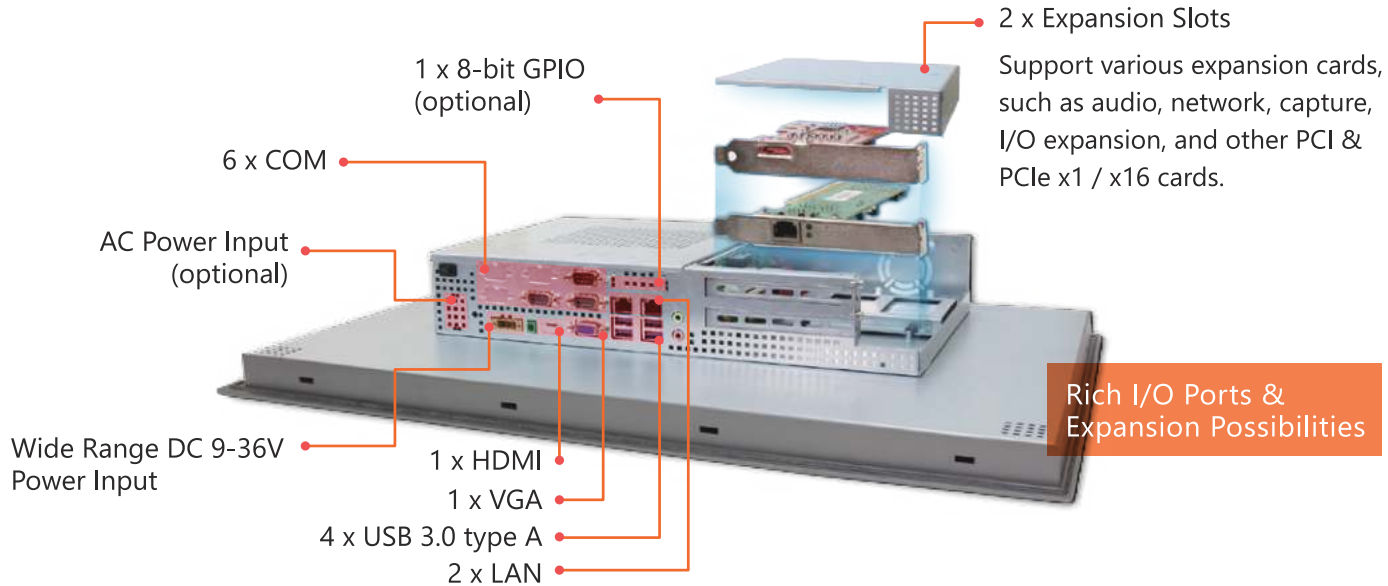
Aluminum Die-Casting Front Bezel with IP66 Support PCT/RTW/AR Glass



2 x Expansion Slots



DC/AC Power Input, Support AT/ATX Mode





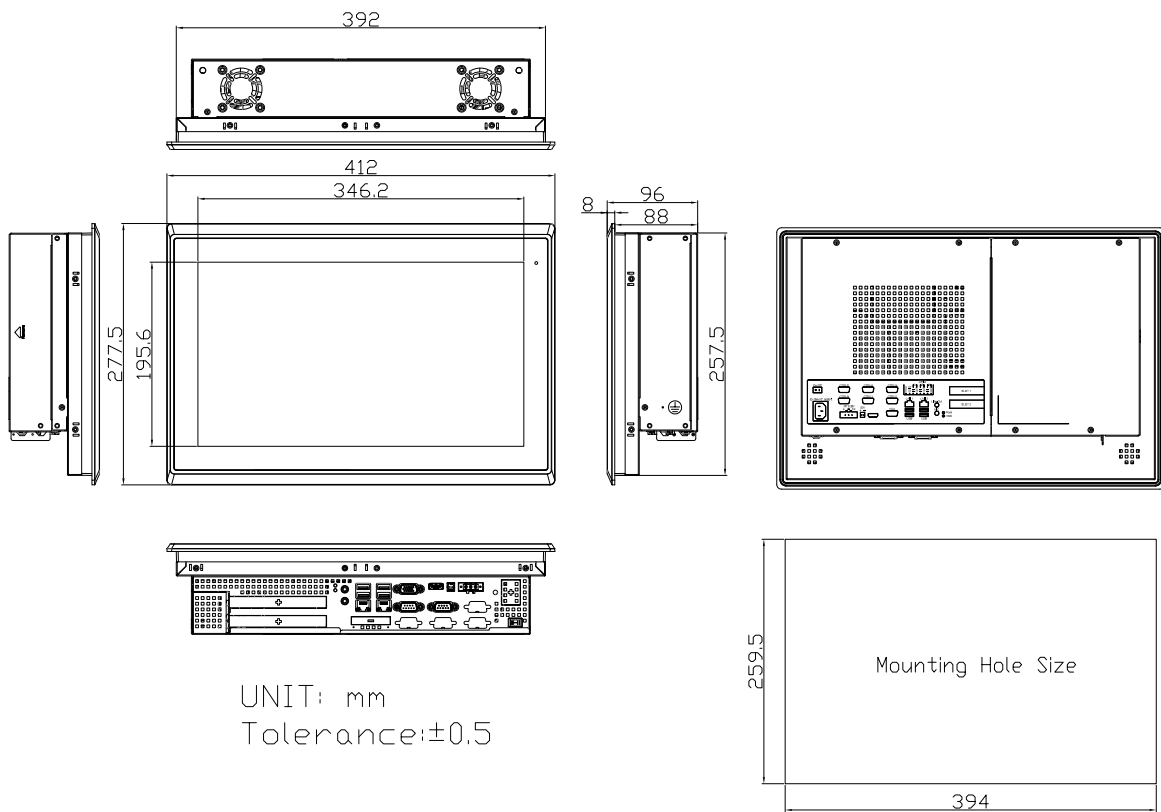
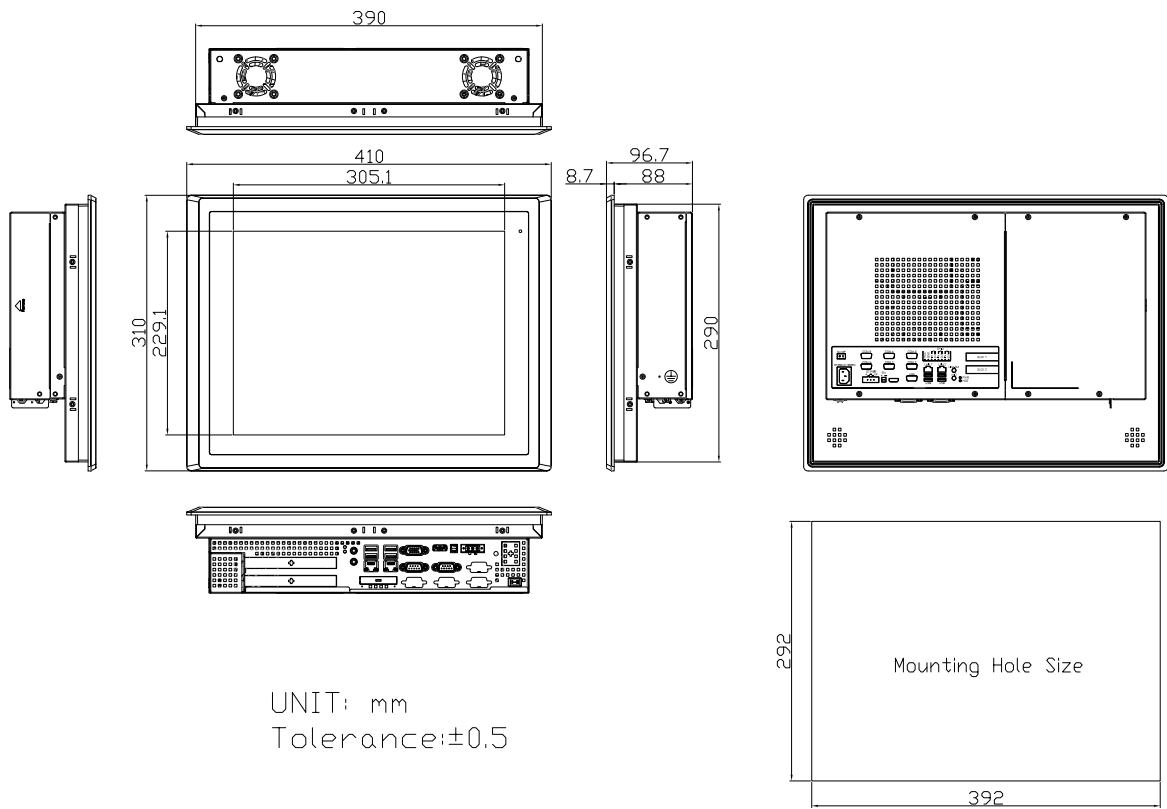




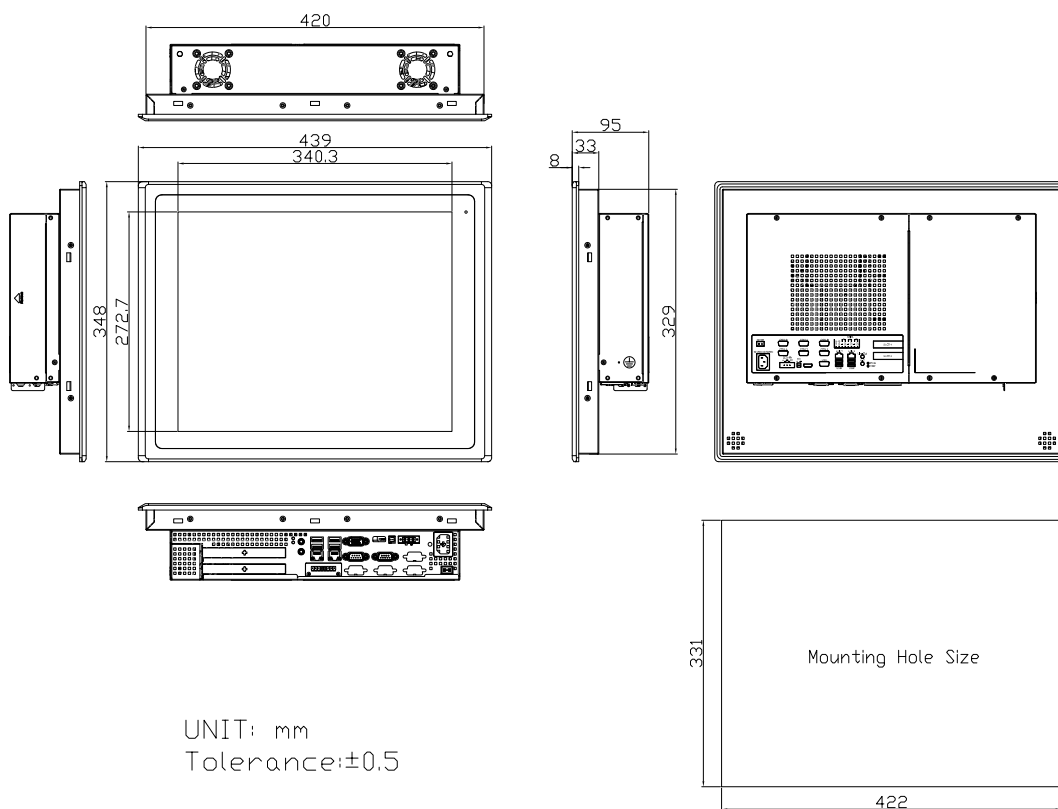




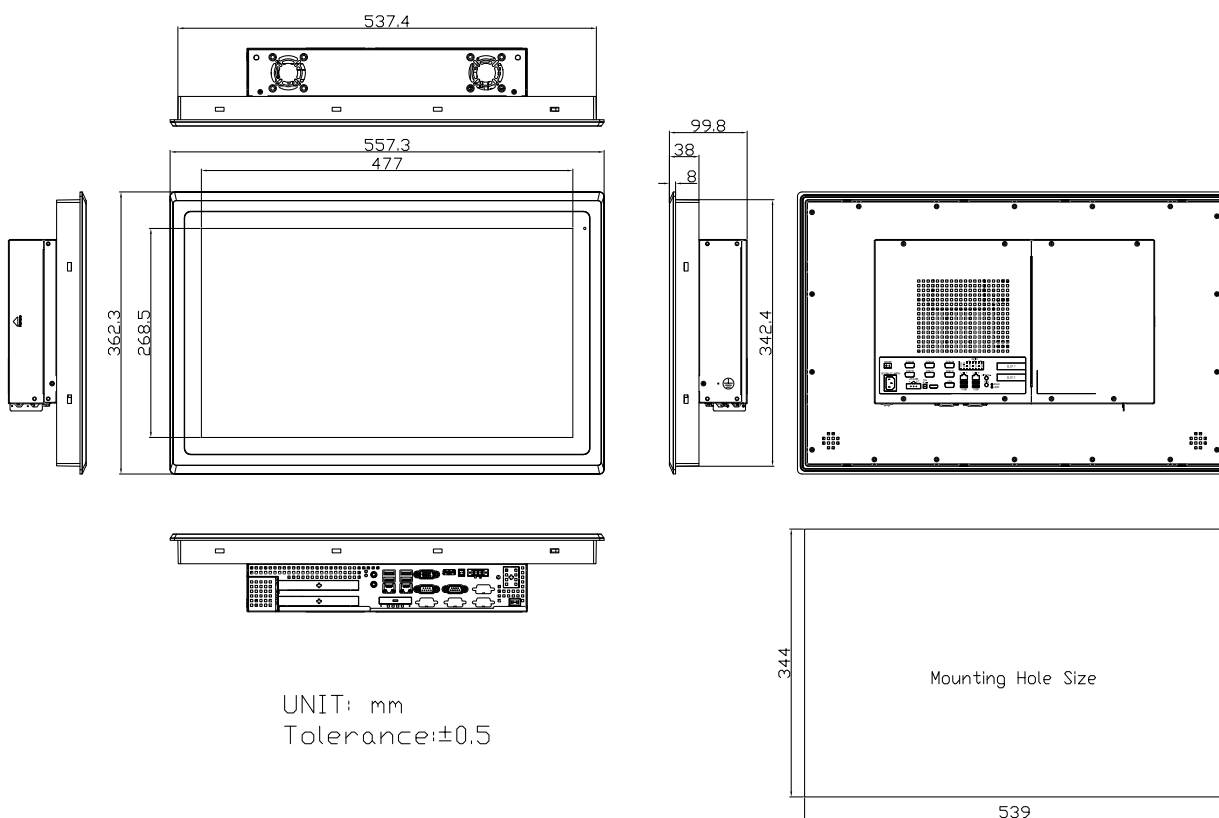




ViPAC-817R/P/G(H)



ViPAC-821R/P/G(H)



Model NO.	Description
ViPAC-815R	15" XGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-815P	15" XGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-816R	15.6" WXGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-816P	15.6" WXGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-817R	17" SXGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-817P	17" SXGA Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-821R	21.5" FHD Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel
ViPAC-821P	21.5" FHD Intel Celeron N2930 (1.83.GHz) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel

SAE J1939 and ISOBUS In-Vehicle Panel PC Solution

APC-3103 Series



*Lightweight and Rugged Panel PC
for Heavy Machinery*



APC-3103 Series

APC-3103 panel PC series is the solution for heavy machinery. It is designed to be attach great importance to working safety and require high stability, water, dust and strong vibration resistance to be applied to semi-outdoor, harsh and corrosion environments. For example, mining industry, construction site, agriculture industry, warehouse, etc.

Features

- NXP i.MX8M Quad Plus Processor
- 10.1" TFT-LCD
- Engineering Plastic Construction
- -20~60°C Wide Range Temperature
- Wide Range DC 9~60V Power Input
- Android 10 Operation System

Slim Panel PC



Ambient Light Sensor (for option)

5MP Camera (for option)

Side I/O Port

USB2.0 Type-A

Micro SIM

Micro SDXC slot

2W IP66 Speaker

Flat Front Panel

Touch Screen Monitor

Projected Capacitive Touch

Applications



Heavy Equipment

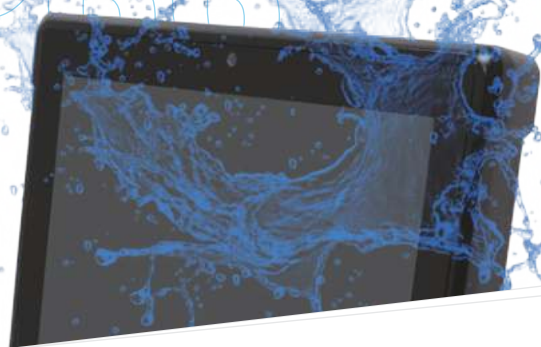


Agriculture Machinery



Forklift

IP66



Total Waterproof

In the warehouse or in heavy industry including indoor and outdoor environments, APLEX's in-vehicle panel PC are total IP66 certified and also equipped with M12 or ISOBUS connectors to resist dust and water ingress.

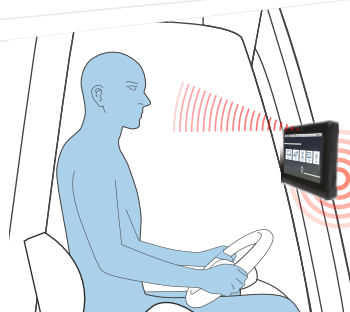


Rugged Design

APC-3103 series is constructed with lightweight engineering plastic, which has outstanding high temperature stability featuring with rugged and fanless design. It is durable and easy to maintain. Moreover, it has meet MIL-STD-810H for vibration to withstand rough and bumpy road.

Sunlight Readable Solution

Heavy in-vehicles are mostly being used in outdoor or semi-outdoor. APC-3103 series provides up to 1000 nits of high luminance and optical bonding to reduce reflection for better readability.



Driver Monitoring Camera

(for option)

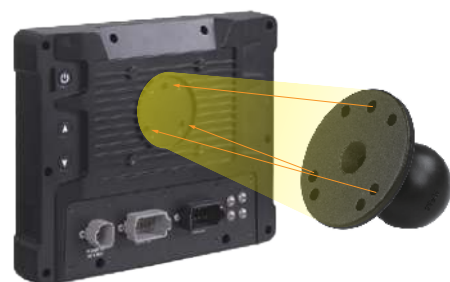
Front camera for driver status monitoring. It will protect driving safety by image detecting and security access controlling. Moreover, it can also communicate with central control and support facial recognition.

Mounting Applications

To be able to applicate in all kinds of vehicles, APC-3103 series provides two mounting ways, VESA Mount 75 x 75 and RAM Mount.



• VESA Mount



• RAM Mount



Wireless Connections

Supporting various internet connectivity, including Wi-Fi, Bluetooth, 4G and GPS for real-time communicating as well as fleet and status tracking.

Functional Keypad

APC-3103 comes in rear programmable keypads (default volume +/-) and one power button to fasten working procedure.



ACC Control (optional)

ACC will delay the time of power on/off to prevent panel PC from software and hardware damage which caused by sudden shutdown.



RFID Control (optional)

Driver identification is a helper that can make driver and fleet managing much easier.

Difference of APC-3103I & APC-3103M

APC-3103I and APC-3103M are respectively different in connectors, the former is equipped with ISOBUS for agriculture machinery and the latter is with M12 connectors for widely usage in heavy-duty in-vehicle applications.

ISOBUS



APC-3103I ISOBUS Connectors

Agriculture machinery with [SAE J1939/ ISOBUS](#) communication protocol which communicate data and information between tractors, vehicle, accessory equipment and software.

M12



APC-3103M M12 Connectors

M12 connectors protect the system for long-term usage with its' water-resistant and dust-resistant features.







In-Vehicle Industrial Panel PC



INDUSTRY 4.0 EVOLVES
WAREHOUSING MANAGEMENT
INTO A SMART FUTURE



HOW IN-VEHICLE CONNECTIVITY DRIVES THE EFFICIENT WAREHOUSE MANAGEMENT

A good warehouse management system can be installed in different ways to ensure reliability, efficiency, easy maintenance, and mission smoothly operating a

Rugged and Fanless Design

In the collisional environment, all series is rugged and fanless designed for easily keeping equipment maintenance. Strongly enhancing the reliability, efficiency, and stability.

APC-3072 has the attractive front bezel designed and the surface adopts Aluminum which is lightweight, high strength and anti-corrosion.

APC-3082 has the special enclosure made by engineering plastic which is also lightweight and suits rugged conditions.



APC-3072
Aluminum Front Bezel Design



APC-3082
Rugged Plastic Housing



Touch Screen Monitor Technologies

APLEX in-vehicle panel PC series provides 5 wire resistive touch with 7H anti-scratch and over 80% of light transfer rate for improving the quality and clarity of display. Also, we offer a multi-touch screen for option.



7H anti-scratch



Wireless Communication

All series supports Bluetooth, Wi-Fi, GPS, and 3G/LTE network function for immediately tracking and managing the assets, as well as update 24/7 real-time location status and route information to the control center.



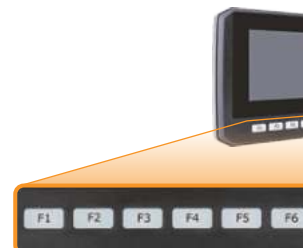
Various Mounting



To attach our Panel PC in different ways. We supply many mounting ways like VESA mount, VESA mount 75x75 / 100x100 mount (option).

Front-Function Keypad

APC-30X2 series are equipped with a power on/off button for control. It also includes the volume up/down buttons. It provides F1~F6 programmable function keys.



ent needs to carefully structure each stage so it can bring lots of benefits to companies. APLEX In-Vehicle Panel ent types of vehicles in the warehouse and depots, such as forklifts and engineering trucks to reach high stability, intenance, and well communication. APLEX In-Vehicle Panel PC solution can perfectly monitor and keep each nd running the assignments to minimize the errors.



IP66 Waterproof and M12 I/O Connectors

Since logistic application includes indoor and outdoor, accompanying by humid, dusty environment. APLEX Panel PC is equipped with 6 sides IP66 certified protection with M12 connectors which can be tightly screwed in and avoid descent of water and dust-proof, in case the water damage the machine when it will be operated outdoor.



Ways

erent types of vehicle, ways including Panel 100x100 and YOKE

Keypad

l with the functional keypad such conveniently operating. APC-3082, lighten up/down, and APC-3072 e button.



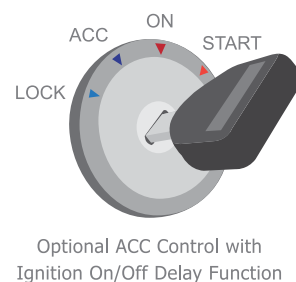
High brightness Sunlight Readable LED Backlight LCD

High luminance is provided from 600 nits up to 1,000 nits for optional which can be used in semi-outdoor to aim the sunlight readable solutions. LED backlight LCD can greatly save the power consumption and provide the longer LCD lifetime.



ACC Control Design

ACC power delayed on/off function which can customize the period of time to delay panel PC power up and shutdown, as well as prevent from system crash and damaging the hardware because of computer suddenly shutting down.



Optional ACC Control with Ignition On/Off Delay Function

Operation System Support / Certification

APC-30X2 series supports windows embedded 7/8.1 and windows 10 IoT operating system. Moreover, it passes CE/FCC Class A/ MIL810F/ IEC60068-2-27 for vibration/ Shock certification.





WAREHOUSE ENVIRONMENT

Warehouse Environment is complex and tough, combining with the wide temperature range, high turnovers, and a multitude of inventory. From receiving inventory, asset management and tracking, order selection to shipping and delivering, it requires high safety, low errors, quality assurance and high efficiency.

APLEX In-Vehicle Panel PC is creatively designed for managing and automating the process of warehouse management and it integrates web connectivity for applications in vehicle management. According to your requirement, you can evaluate the necessities and easily do the OS decision-making according to your needs of the software.



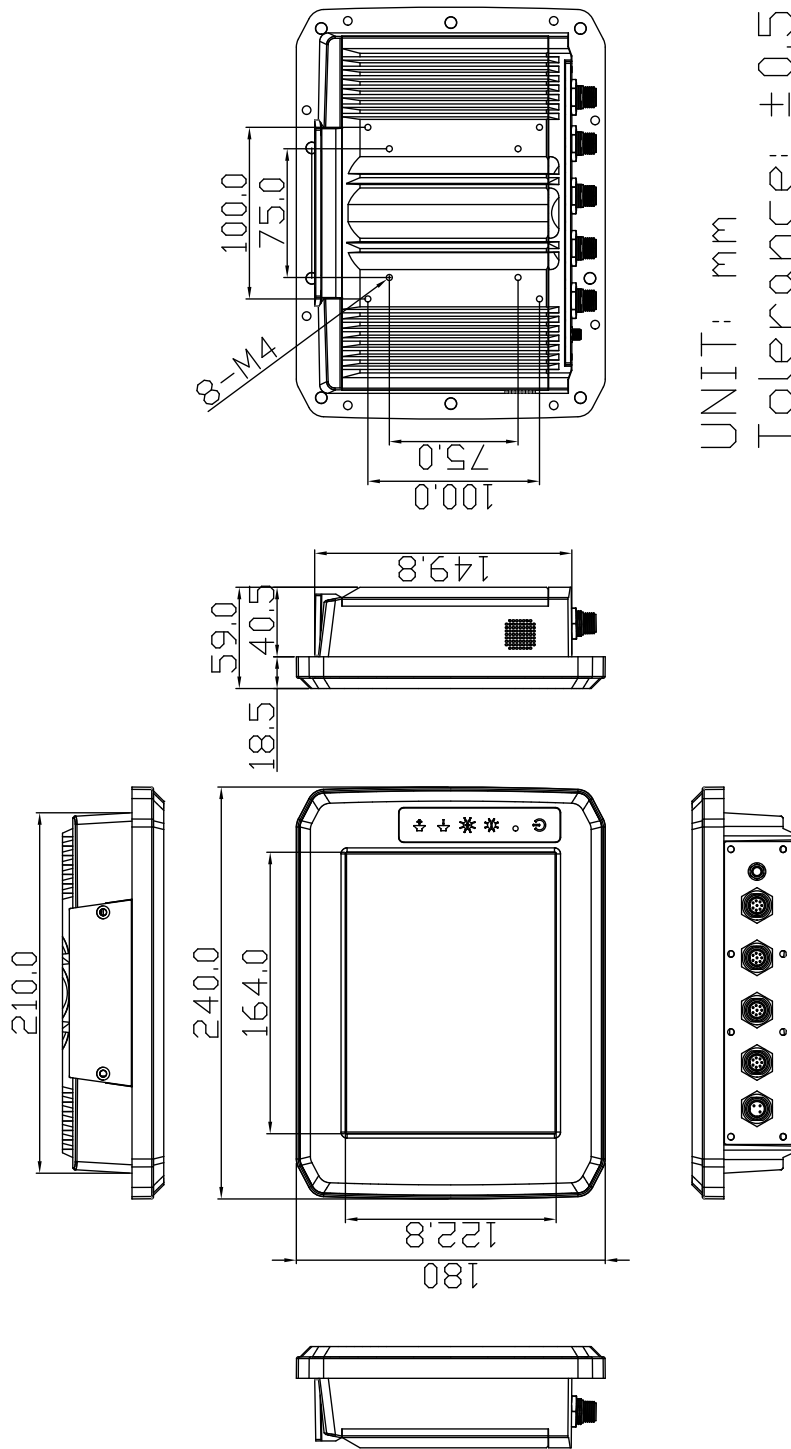
APC-3072 / 3082

- Intel Atom Processor E3845
- Onboard 4GB DDR3L Memory
- 1 x Micro SD on board
- 1 x mSATA MO-300 slot
- Total IP66 Rating
- Front Function Keyboard
- Wide Range DC 6~36V Power Input







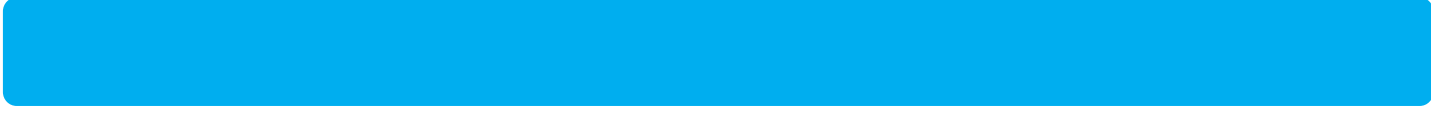


UNIT: mm
Tolerance: ± 0.5



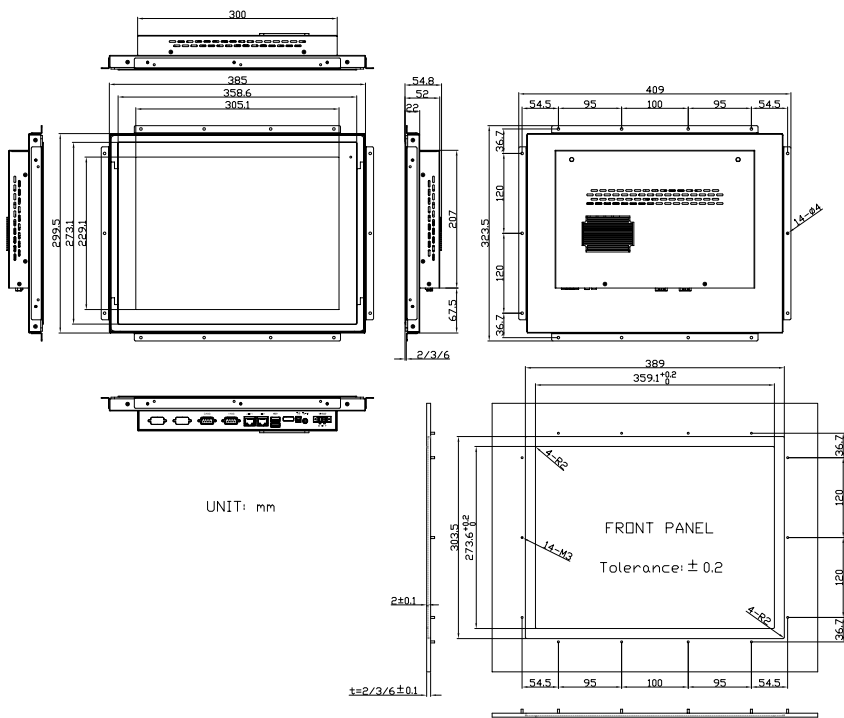
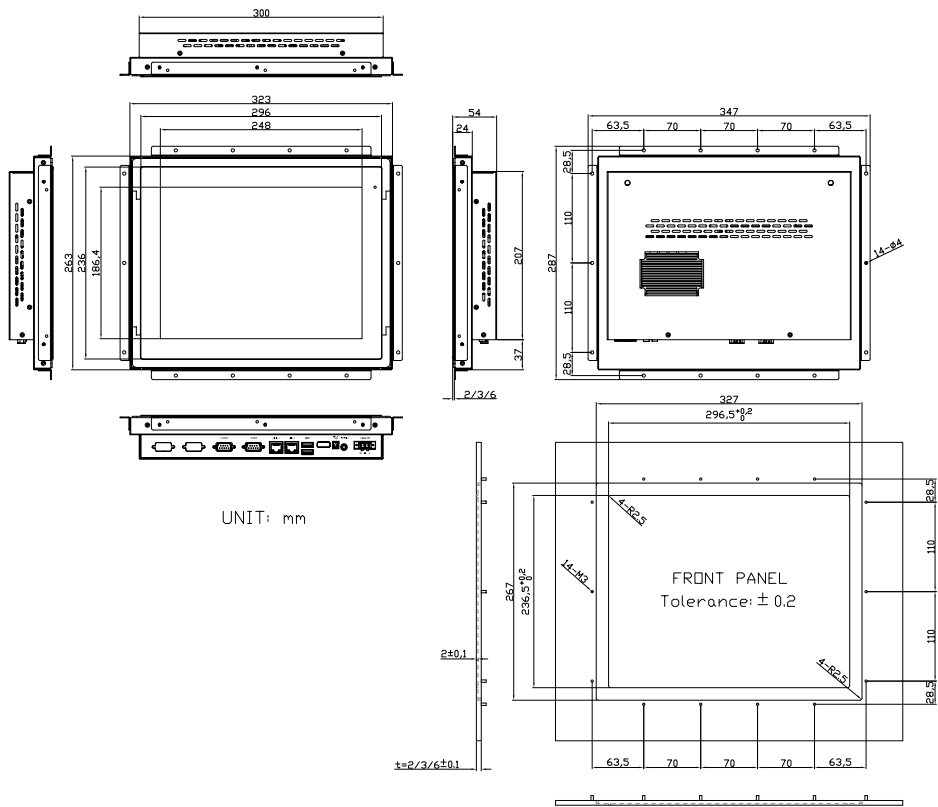


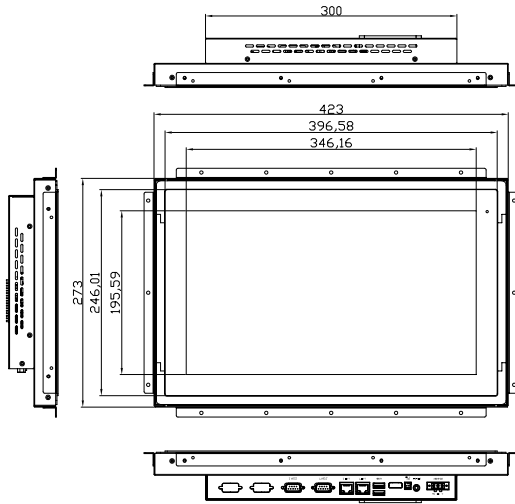
Specifications



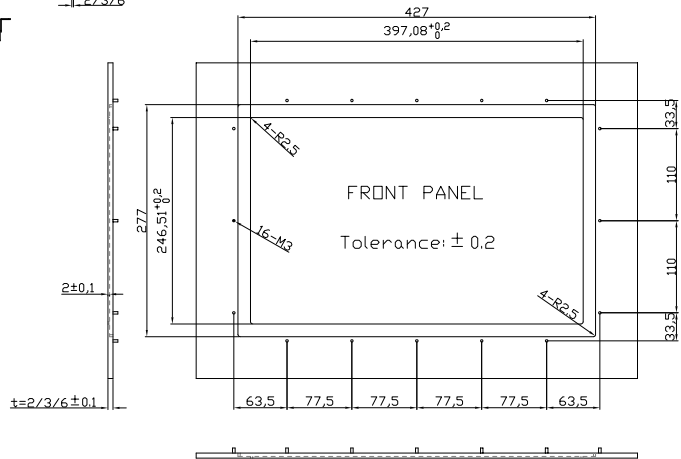
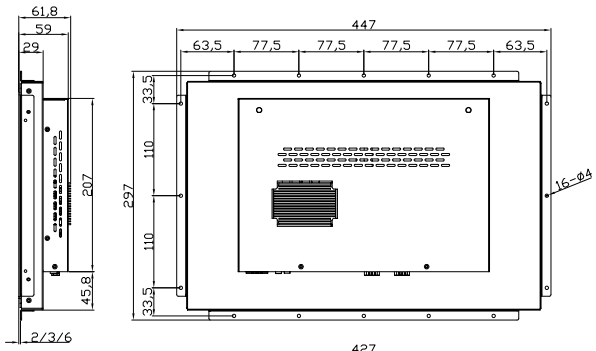








UNIT: mm





HMI

APLEX has been dedicated to developing human machine interface which is APLEX flagship product; we have devoted to deliver the world-class performance for wide range of industrial application, to efficiently control various machines, systems and facilities.

APLEX offers both x86-based and ARM-based open architecture products with TFT-LCD panels and the sizes ranging from 5.7" to 21.5". All are equipped with the touch screen including projected capacitive and resistive; the flat bezel design with IP 66 water-and dust-proof rated which is easy to clean, preventing the accumulation of grime. In order to reach the high industrial grade, APLEX HMI products support a wide range of voltage input (DC9~36V) and use the industry standard terminal block connector.

APLEX provides the most comprehensive human-machine interface products and services to all potential customers. Based on different requirements, APLEX offers cost-effective and high-performance selections; construction includes stainless steel, metal chassis, aluminum and plastic enclosure. All are well-suited for integration with all kinds of machinery and equipment.





New Generation Rugged HMI

HELIO Series

*High Performance Computing
to Improve Smart Factory Productivity*



HELIO Series

New Generation HMI for Smart Automation

APLEX HELIO series is the new generation HMI. HELIO is powered by Intel Tiger Lake 11th Gen processor for factory automation, control and communication.

Features

- Intel Tiger Lake 11th Generation Processor
- High Brightness 1,000 nits Optional
- 2 x SO-DIMM DDR4 3200MHz, up to 64GB
- M.2 and Mini-PCIe Expansion Slots
- Resistive/ Projected Capacitive Touch
- Aluminum Die-casting Construction

Camera (by project)

2 mm

Slim Design

Narrow Border

Narrow border and slim design make HELIO not only looks more modern and stylish but also greatly decreases the system weight.



11th Gen. Intel Core i3/i5



Fanless Design



IP66 Front Bezel



0°C~ 50°C
(-20°C~ 60°C optional)

Wide Range Temperature

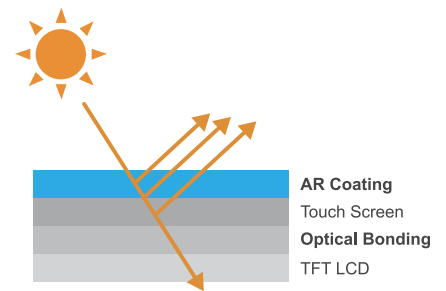
Sunlight Readable Solution (for option)



• Auto Dimming



• High Brightness



• Optical Bonding & AR Coating

ation HMI for industrial automation. From features to product outlook design, we highly elevated overall functions. 11th generation Core i3 and i5 to provide high computing performance for smart manufacturing, communication, SCADA and robotic applications, process control and so on.



Internet Connectivity

HELIO supports various internet connectivity to support AIoT, and provides a smooth and high speed data transmission to connect peripherals and advanced control system.



Modern Design

The special glinting light line with aluminum die-casting construction makes the outlook much more stylish.



Fast Mounting Kit (available above 15.6")

APLEX unique mounting kit highly protect the system from water or dirt ingress by having no fix-holes on the panel frame.

Modular and Easy Assembly

The computing system can be removed by only two screws, which is convenient and time-saving.



I/O Expansion Solutions

HELIO supports TB-528 series expansion cards to satisfy different factory automation requirements. Being more customized and flexible, various I/O combinations are available!



CAN Bus Module

TB-528CAN2



USB Module

TB-528U2



COM Module

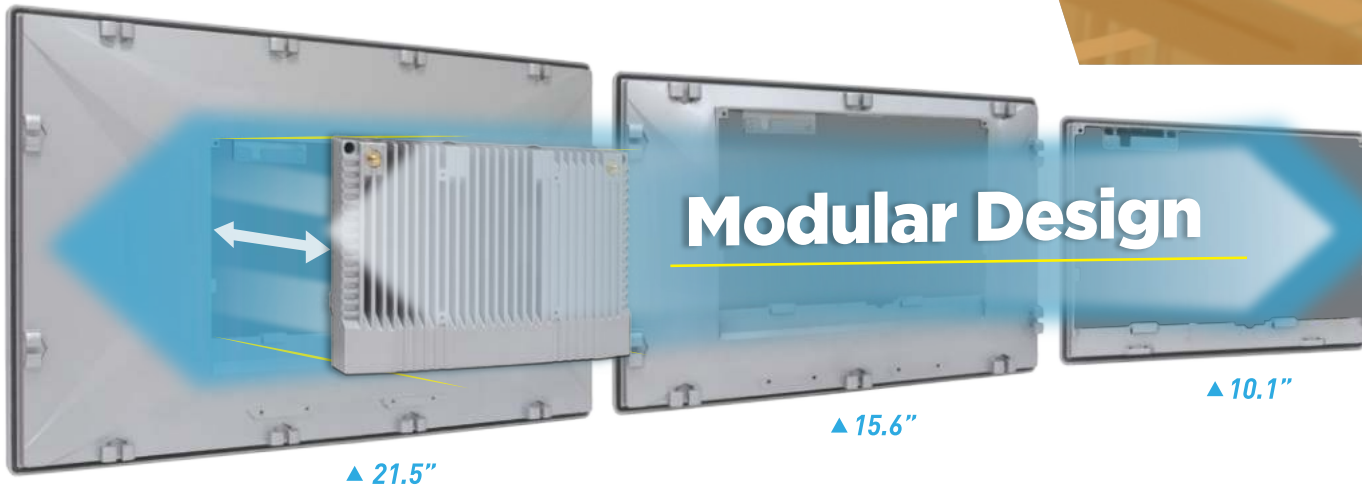
TB-528C2I



PoE/LAN Module

TB-528E1U2POE

ctions.



Modular Design

It can assemble with different sizes of display panel, which also makes maintain the facility more cost-effective.

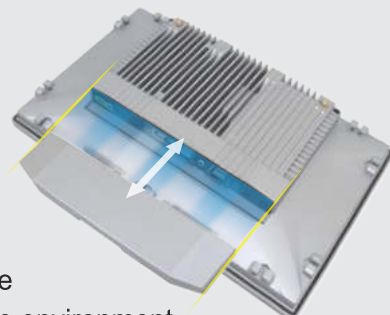
Backup Battery



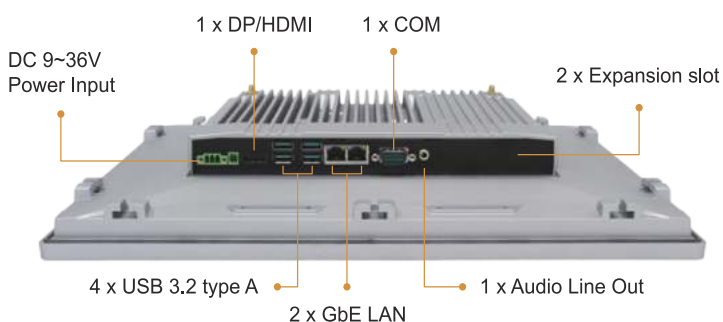
An optional backup battery provides emergency backup power source to protect data and the system for unexpected power interruption.

Cable Management (for above 15.6")

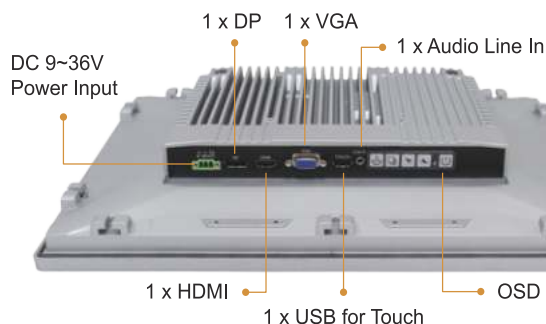
HELIO supports cable cover to organize cables and provide a safe and reliable connection. It can protect cables from damaging, increase the lifespan and neaten the environment.



Panel PC



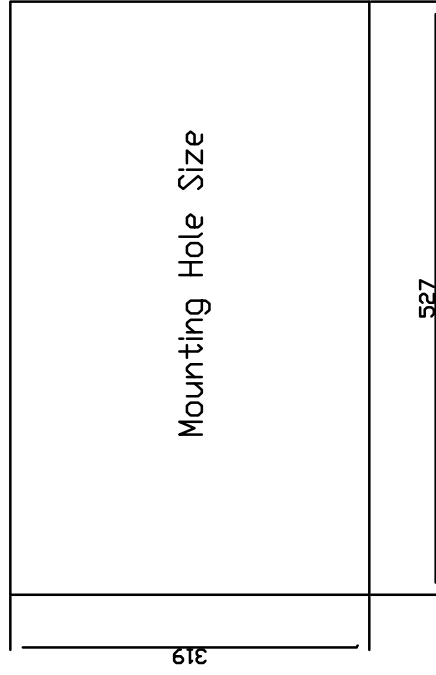
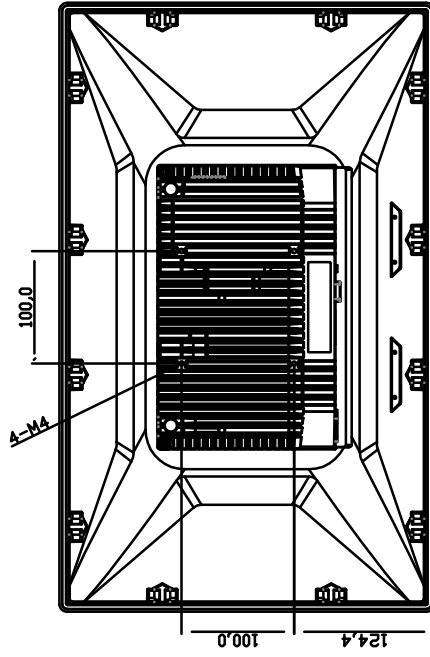
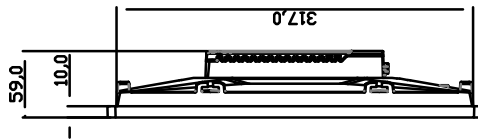
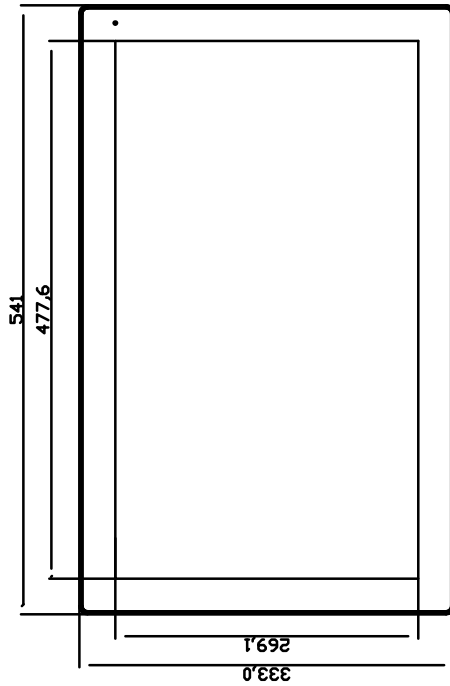
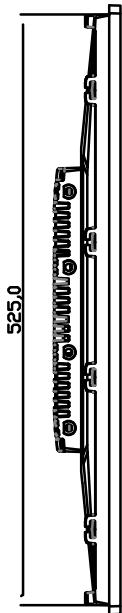
Display









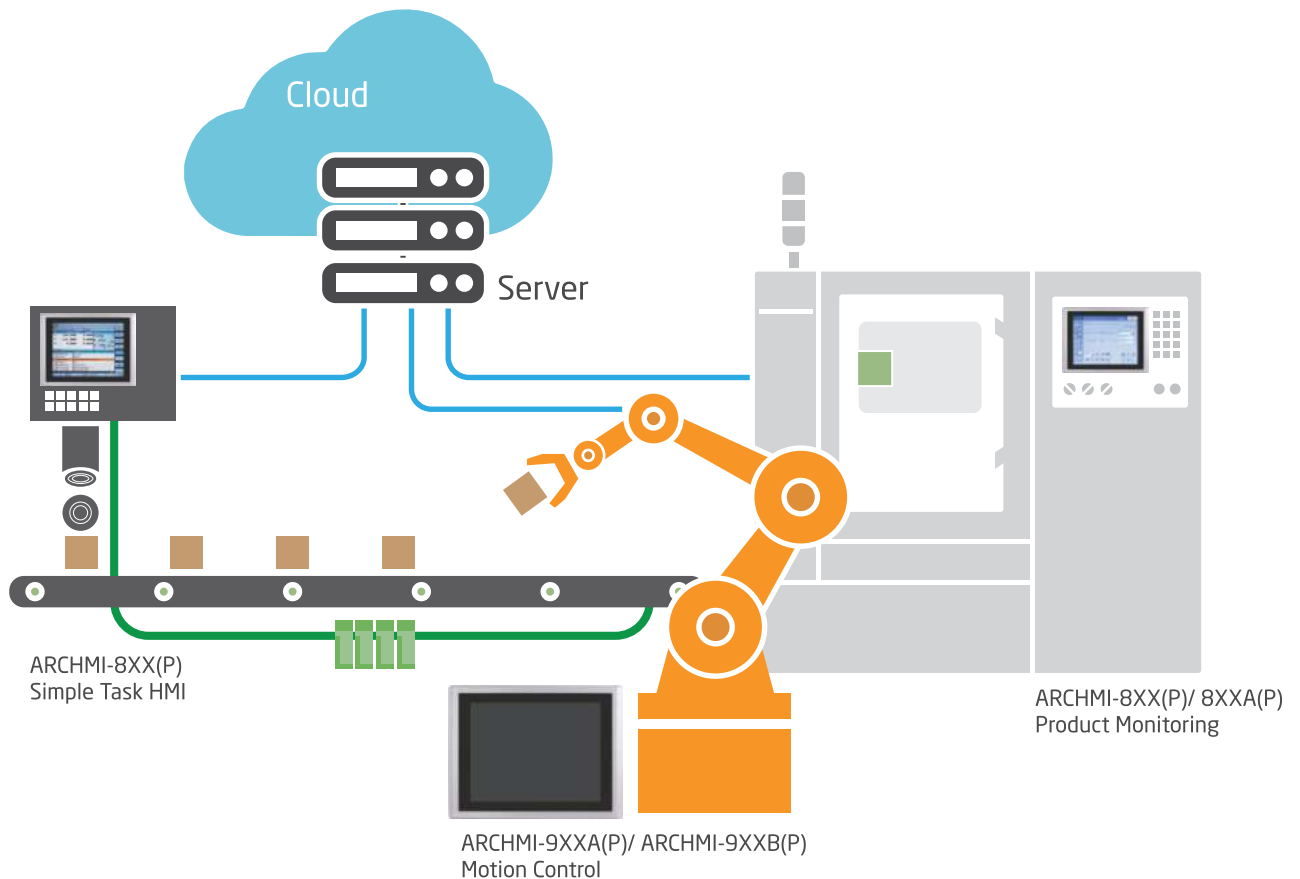


UNIT: mm
Tolerance: ±0.5

ARCHMI Series

Rugged Control HMI

Its fanless design offers 24/7 reliability, from low power Intel Atom to the latest Core i3/i5 (Whiskey Lake) CPU. The projected capacitive touch screen with pure flat, multi-touch support, anti-scratching, Wi-Fi, Dual LAN, Serial and USB functionality.



Product Selection

The Entry Level HMI	Compact Size Low Power	High Performance Expandable
<p>▶ ARCHMI-8XX(P)(H)</p> <p>Atom E3845 Intel Celeron N2930</p> <ul style="list-style-type: none"> • Factory Automation • H2M / HMI • Remote Data Collection • Monitor AOI Status 	<p>▶ ARCHMI-8XXA(P)(H)</p> <p>Intel Pentium N4200 Intel Celeron N3350</p> <ul style="list-style-type: none"> • Advanced Industrial Monitor Controller • Intelligent Automation Controller • Simple Task / Data Processing • H2M/HMI 	<p>▶ ARCHMI-9XXA(P)(H) / 9XXB(P)(H)</p> <p>6th Gen. Intel Core i3/i5 (9XXA(P)) 8th Gen. Intel Core i3/i5 (9XXB(P))</p> <ul style="list-style-type: none"> • Multi-Tasking Capable • Ready for FHD • SCADA / HMI • IIoT Monitor Control

ARCHMI Series

► Specs & Details

- Available from 7" to 32"
- CPU: Built-in Atom E3845, Celeron N2930, Pentium N4200, Celeron N3350, 6th/8th Gen. Intel Core i3/i5
- RAM: Onboard 4GB DDR3L(up to 8 GB) / DDR4(up to 16/32 GB) RAM
- Touch: Resistive & Capacitive Touch Optional
- High Brightness and Wide Temperature Optional
- IP66 Compliant Front Panel
- Flat Bezel Design
- Supports Smart Battery Backup
- Optional Expansion I/O Board : TB-528 Series



Flat Front Panel Design with IP66 Standard



Aluminum Die-Casting Chassis Fanless Design



Easily Accessible Storage Design



Wide Range DC 9~36V Power Input

► Sunlight Readable HMI

ARCHMI-8 and 8A Series & ARCHMI-9A and 9B Series: Ideal for High Ambient Light Applications

Auto Dimming



Auto Dimming for Option Automatically Adjust LCD Brightness

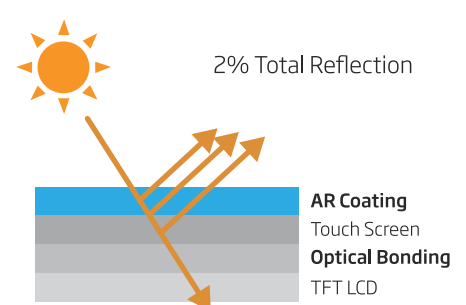
High Brightness



Normal

1,000 nits High Brightness

Optical Bonding & AR Coating

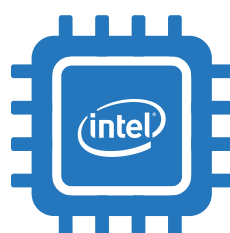


LCD Optical Bonding and Anti-Reflection Coating for Option

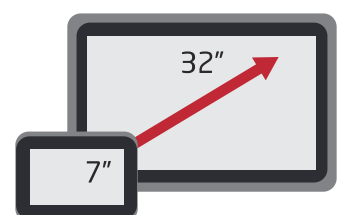
* Optical bonding is also recommended in large temp. difference environment



16:9 Wide screen & Multi-touch Projective / Resistive Touch Optional



From Intel Atom to 6th/8th Gen. Core i CPU



Available LCD Sizes from 7" ~ 32"

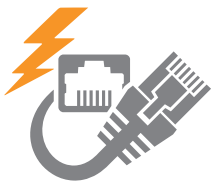
Optional Power over Ethernet Module

▶ Single Cable for Data and Power Transmission

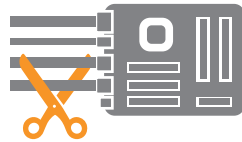


- With PoE technology, it allows the unit to transmit power and data directly through Ethernet cable. This technology simplifies the installation process and provides centralized power management as a maintenance-free solution.

▶ The Benefit of PoE



• Useful for Powering Remote Devices



• Reduce Cable Wiring



• Time and Cost Savings

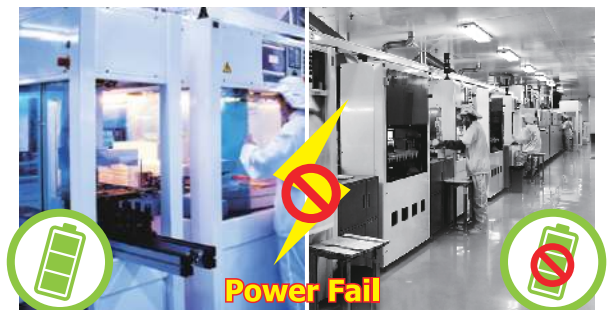
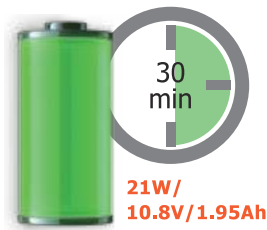


• Easy to Maintain and Upgrade

ARCHMI Series with Smart Battery

▶ Work as UPS to Save Your Data

An optional smart battery is available to APLEX's ARCHMI-8XX/ 8XXA/ 9XXA/ 9XXB series, which provides up to 30 minutes of emergency backup power source for unexpected power interruption.



*Note: The backup time would varies on different models or operating temperature

▶ With Smart Battery Protection

▶ Without Smart Battery Protection

Selection Guide

Model	ARCHMI-912A/912B	ARCHMI-912WB	ARCHMI-915A/915B	ARCHMI-916A/916B	ARCHMI-917A/917B	ARCHMI-918A/918B	ARCHMI-919A/919B	ARCHMI-921A/921B
Display	12.1" TFT-LCD	12.1" TFT-LCD	15" TFT-LCD	15.6" TFT-LCD	17" TFT-LCD	18.5" TFT-LCD	19" TFT-LCD	21.5" TFT-LCD
Battery	•		•	•	•	•	•	•
PoE	•	•	• (only 9A)	• (only 9A)				

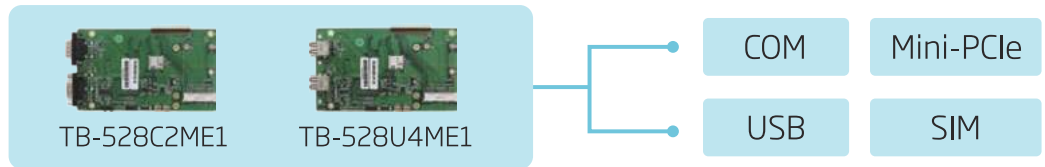
Model	ARCHMI-810/810A	ARCHMI-812/812A	ARCHMI-812WA	ARCHMI-815/815A	ARCHMI-816/816A	ARCHMI-817/817A	ARCHMI-818/818A	ARCHMI-819/819A	ARCHMI-821/821A
Display	10.1" TFT-LCD	12.1" TFT-LCD	12.1" TFT-LCD	15" TFT-LCD	15.6" TFT-LCD	17" TFT-LCD	18.5" TFT-LCD	19" TFT-LCD	21.5" TFT-LCD
Battery	•	•	•	•	•	•	•	•	•
PoE	•	•	•	•	•	•	•	•	•

* 10.1" & 12.1": System is only allowed to build in either I/O board TB-528 series or backup battery.

* above 15": System is only allowed to build in either TB-528 PoE series or backup battery.

Optional Expansion I/O Boards : TB-528 Series

▶ Mini-PCIe Module



▶ CAN bus Module

TB-528CAN2

- Monitoring
- Vehicle Sensor

▶ PoE Module

TB-528E1U2POE

- Single Cable for Data and Power Transmission

▶ USB Module

TB-528U4 TB-528E1U2

- Credit Card Reader
- USB Camera
- USB Fingerprint Scanner
- Barcode Scanner
- Receipt Print

▶ Isolation Module

TB-528C2I

- Patient Ward
- Long Term Care Facility
- Telemedicine
- Nursing Station

Selection Guide

Model	TB-528U4	TB-528U4ME1	TB-528C1U2	TB-528C1U2P1	TB-528C2	TB-528C2ME1	TB-528C2I	TB-528CAN2	TB-528E1U2
ARCHMI-8/8A/9A/9B	●	●	●	●	●	●	●	●	●

* The above listed product does not contain: ARCHMI-807/808(P)H, 807/808ARP(H)

* PoE Limitation

Model	ARCHMI-810 810A	ARCHMI-812 812A	ARCHMI-812WA	ARCHMI-815	ARCHMI-815A	ARCHMI-816 816A	ARCHMI-817 817A	ARCHMI-818 818A	ARCHMI-819 819A	ARCHMI-821 821A	ARCHMI-912A 912B	ARCHMI-912WB	ARCHMI-915A	ARCHMI-916A
TB-528 NE1U2 POE	*	*												
TB-528 E1U2 POE	*	*		*										
TB528 E1U2U POE		●	●	●	●	●	●	*	● 819A*	● 821A*	*	*	*	*

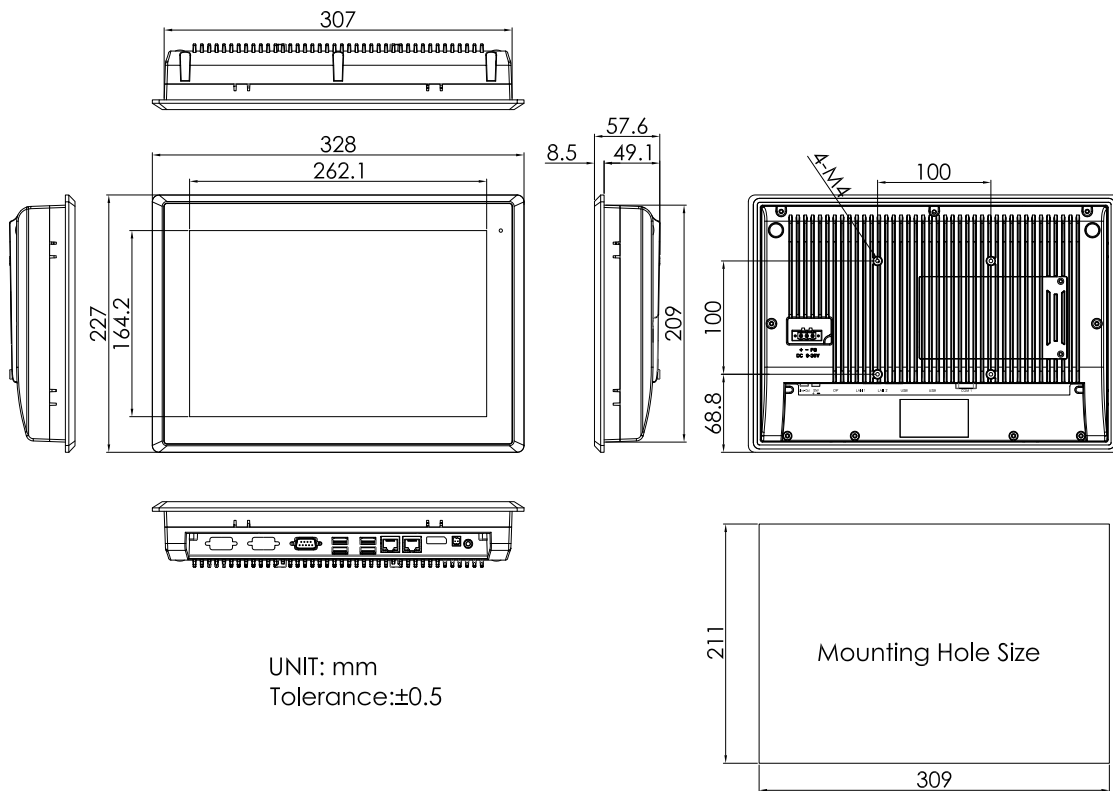
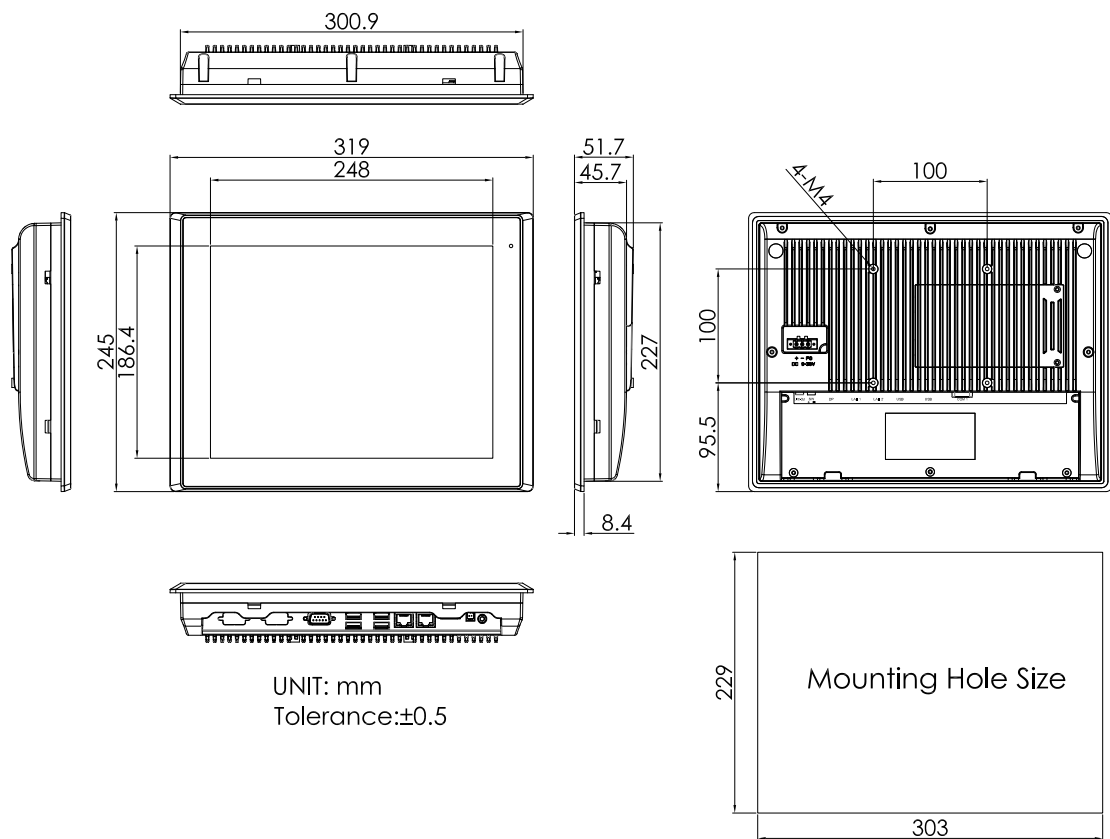
* PoE limitation: CPU turbo off, rear I/O no loading, 70% LED backlight, PSE cable length < 50m

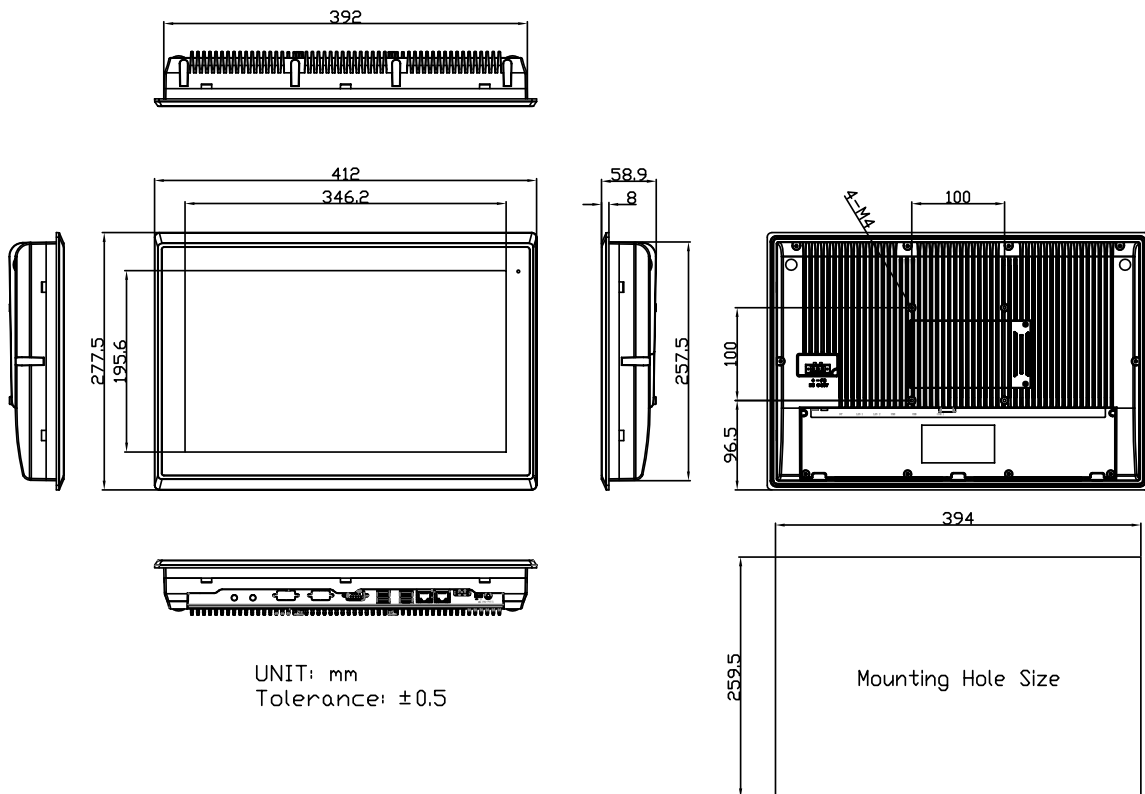
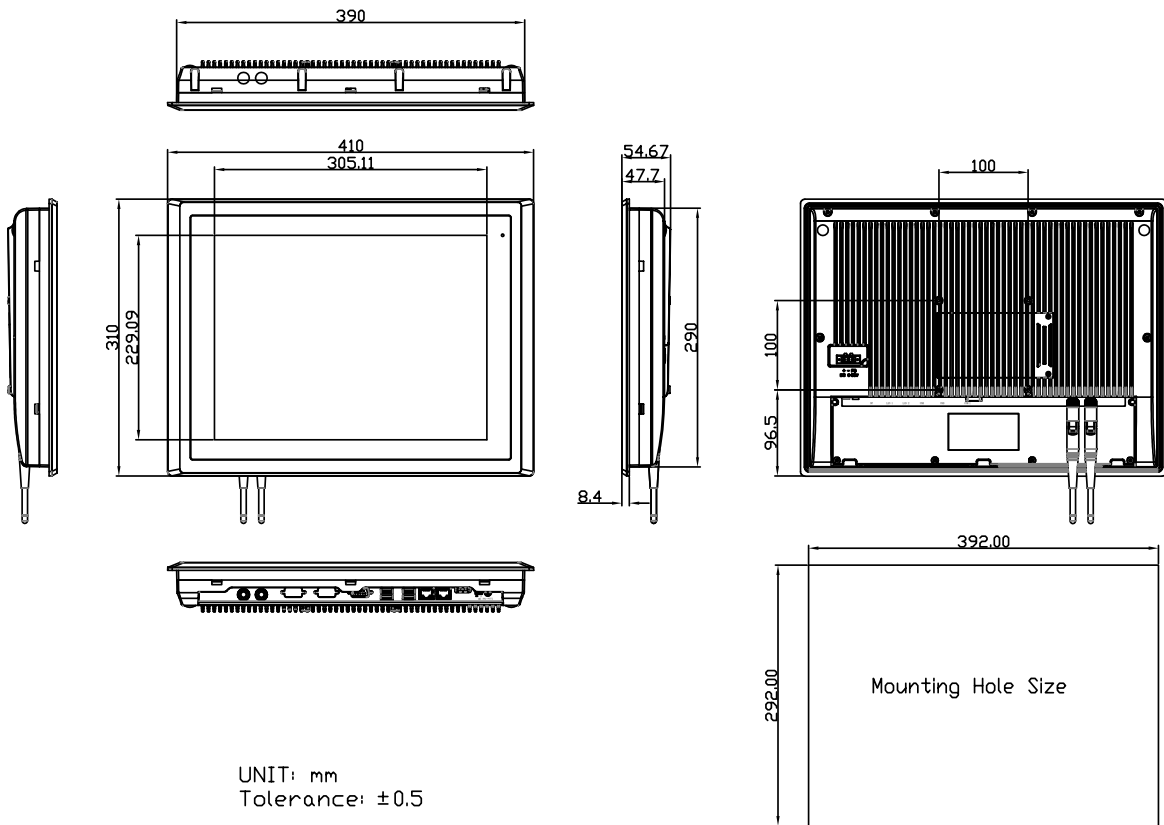


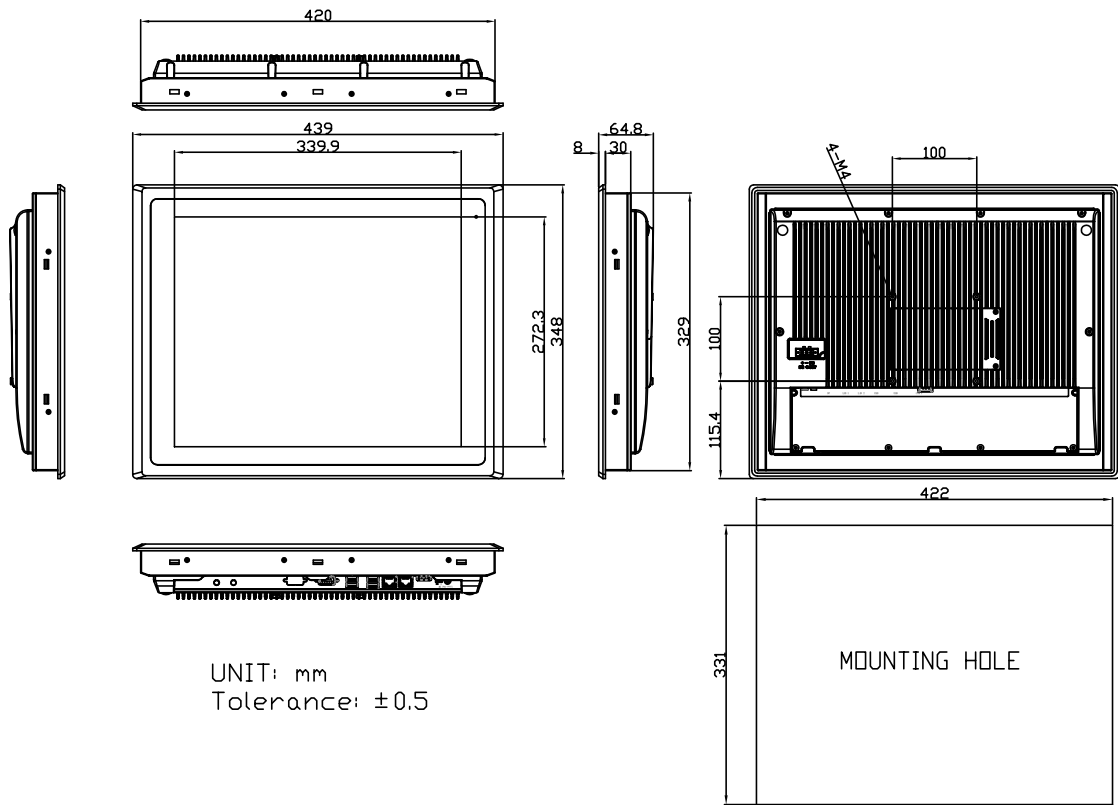




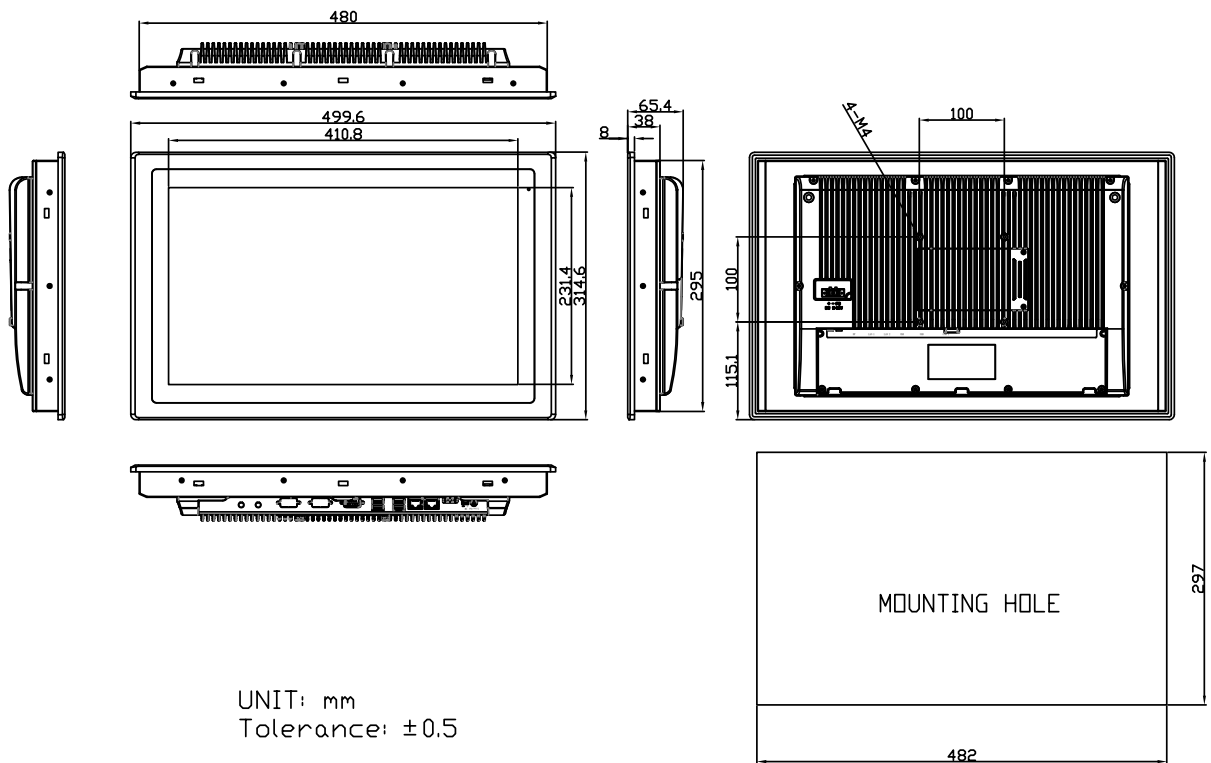








UNIT: mm
Tolerance: ± 0.5



UNIT: mm
Tolerance: ± 0.5





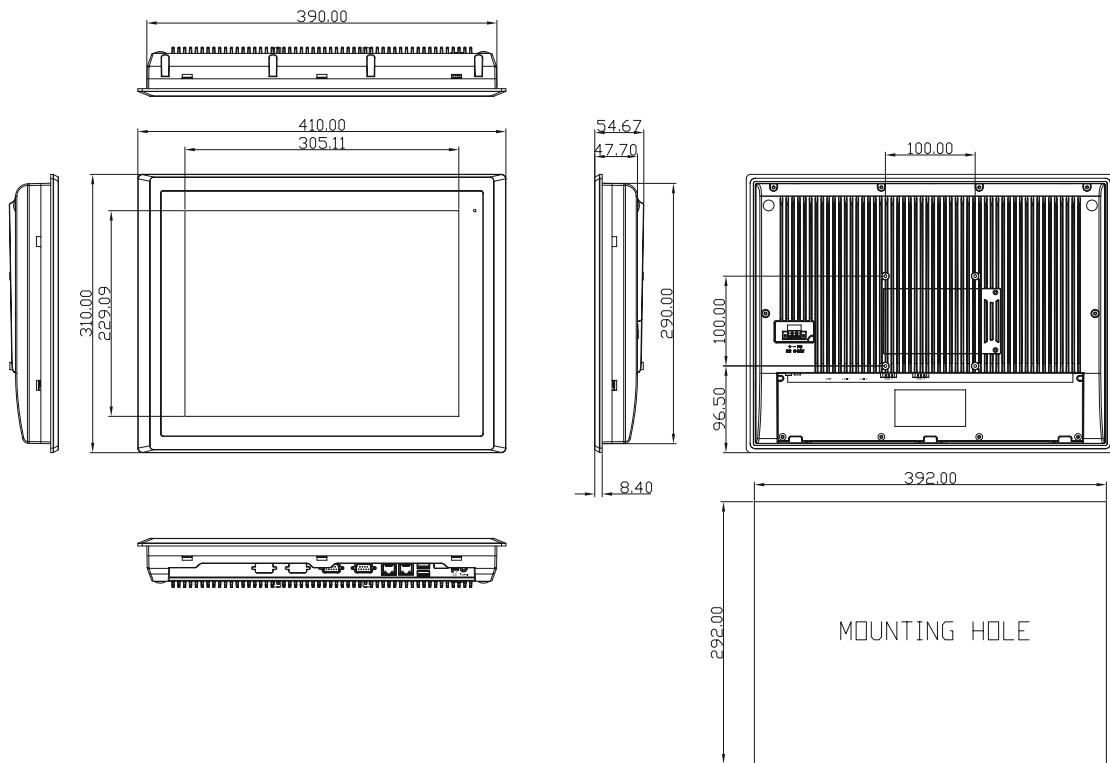
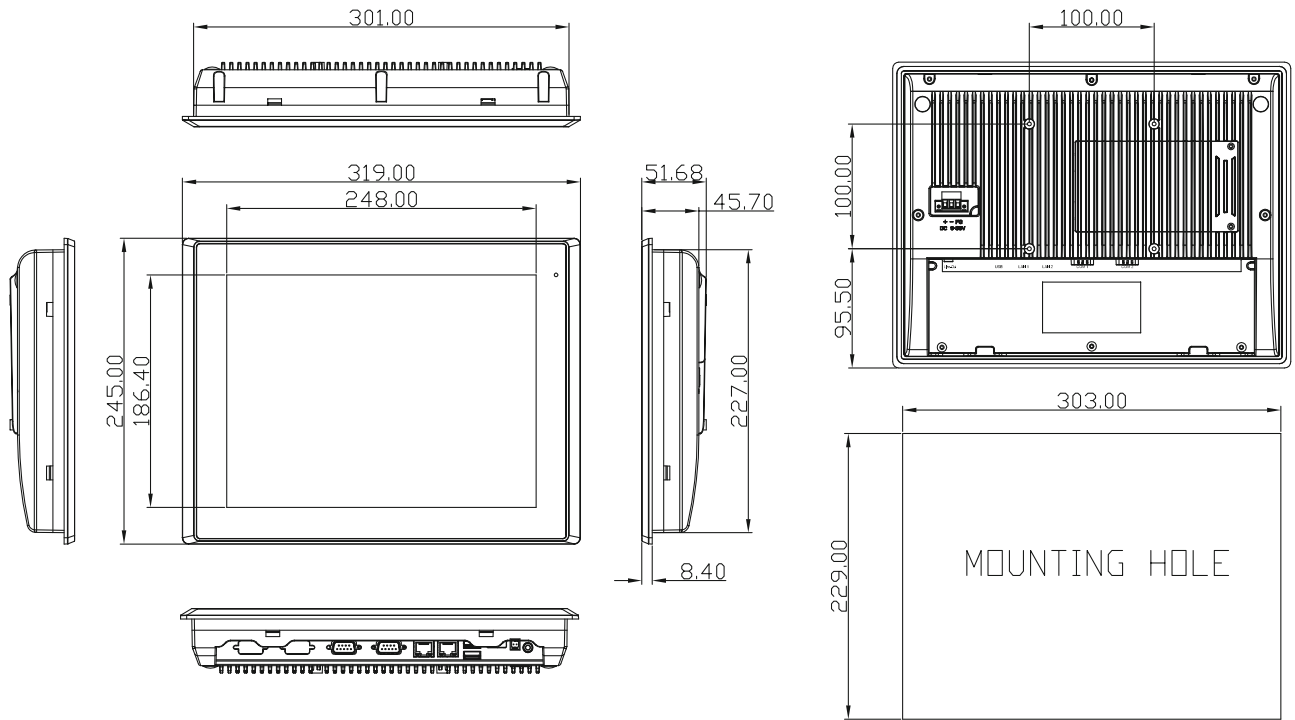


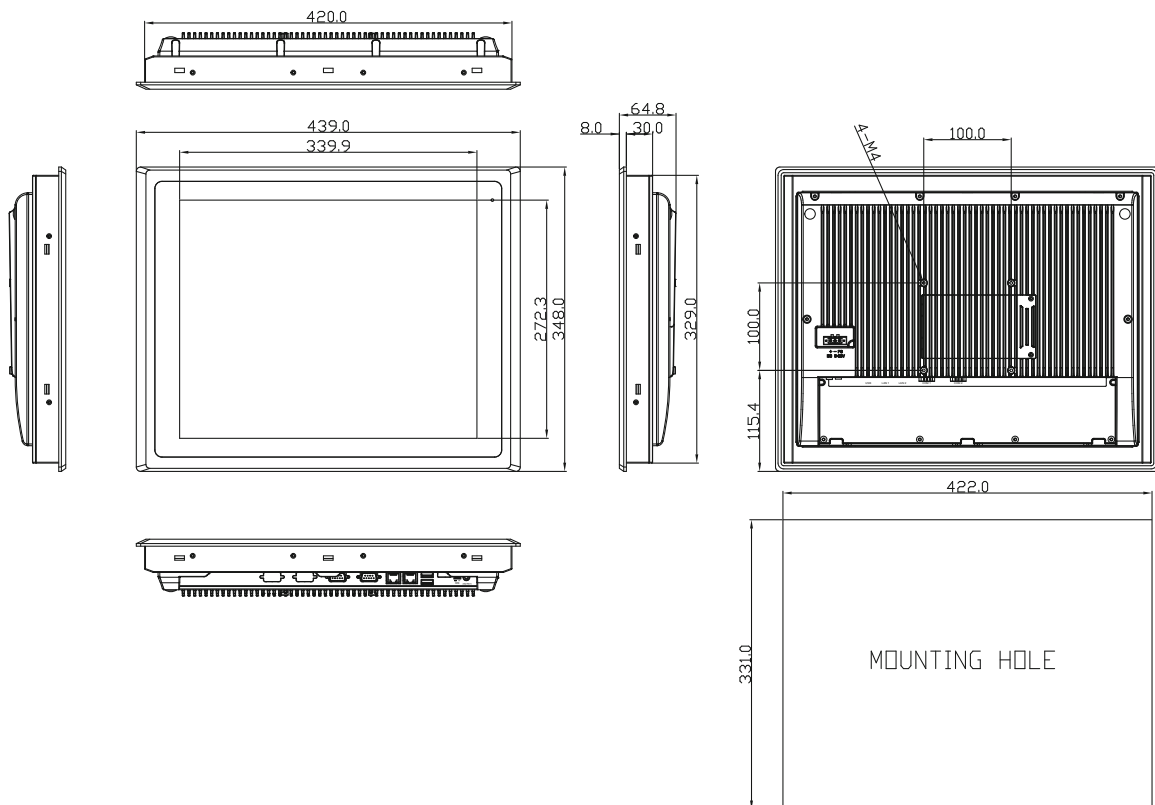
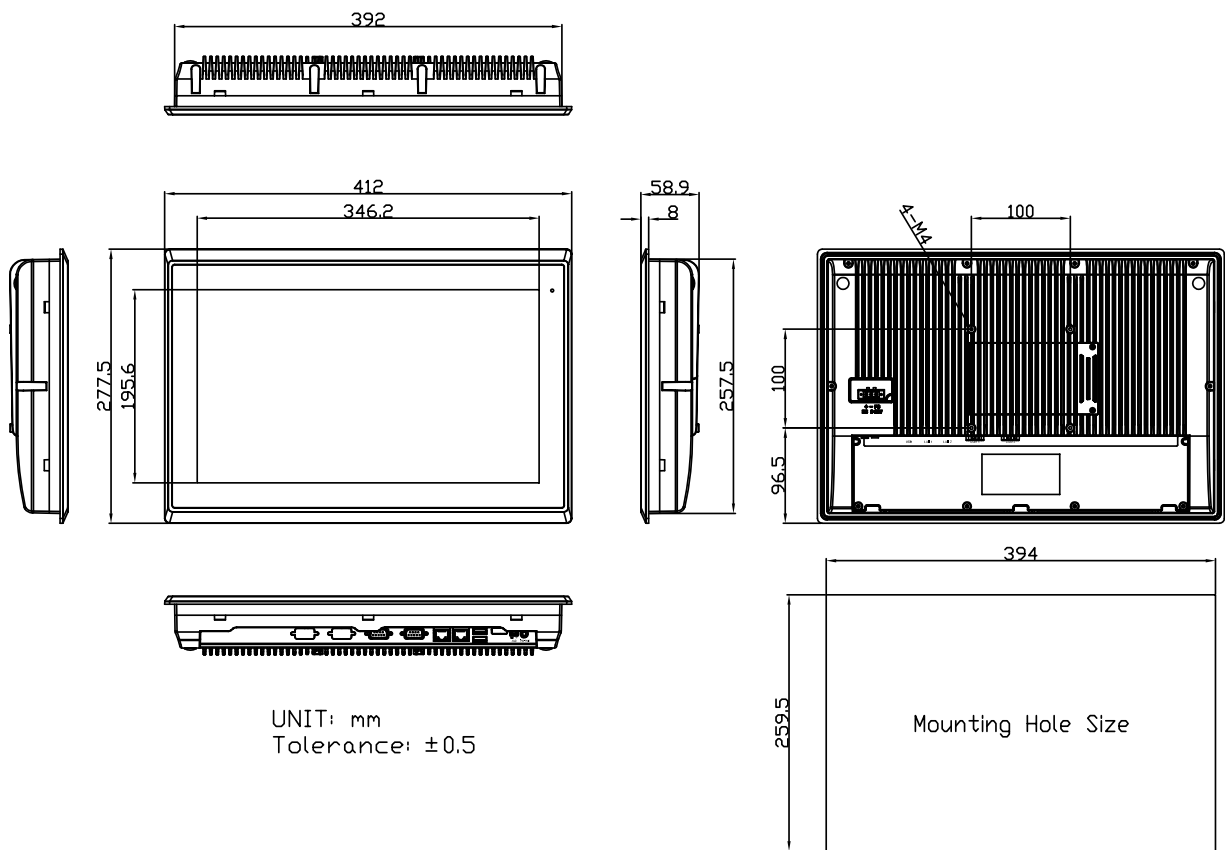


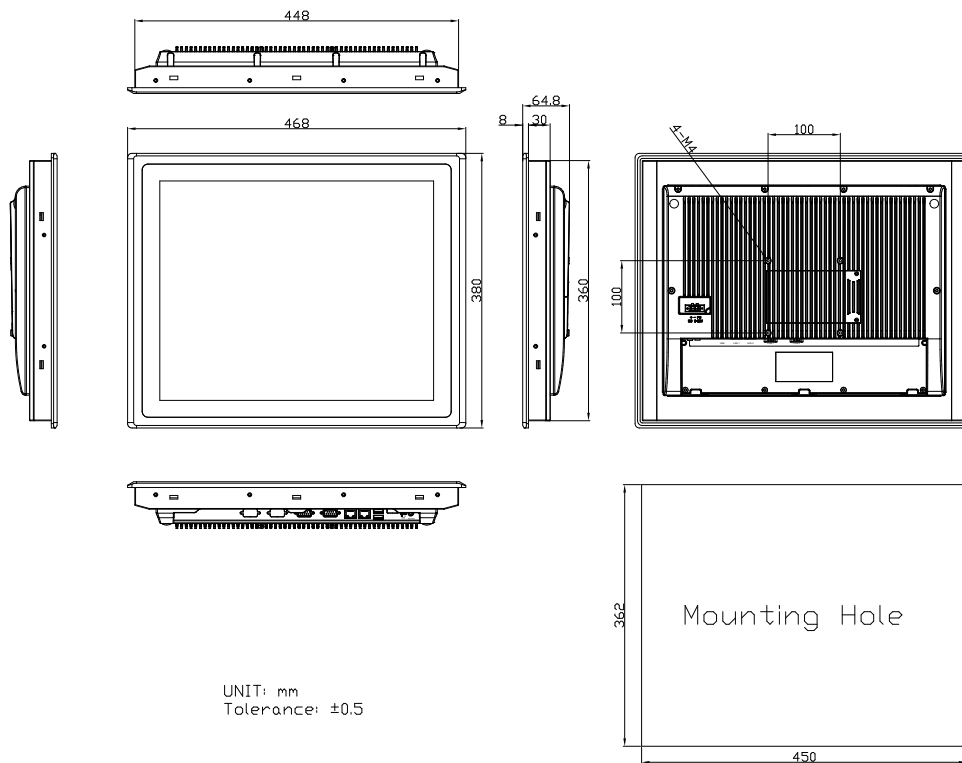
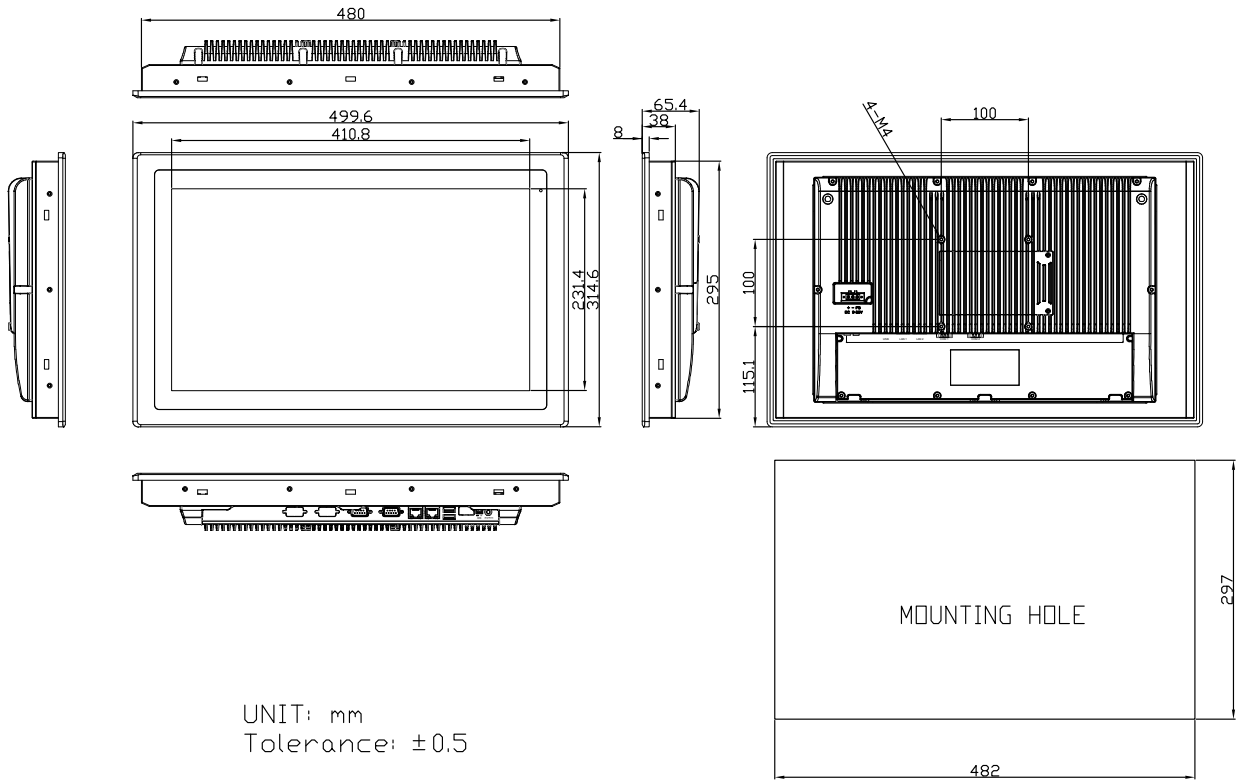


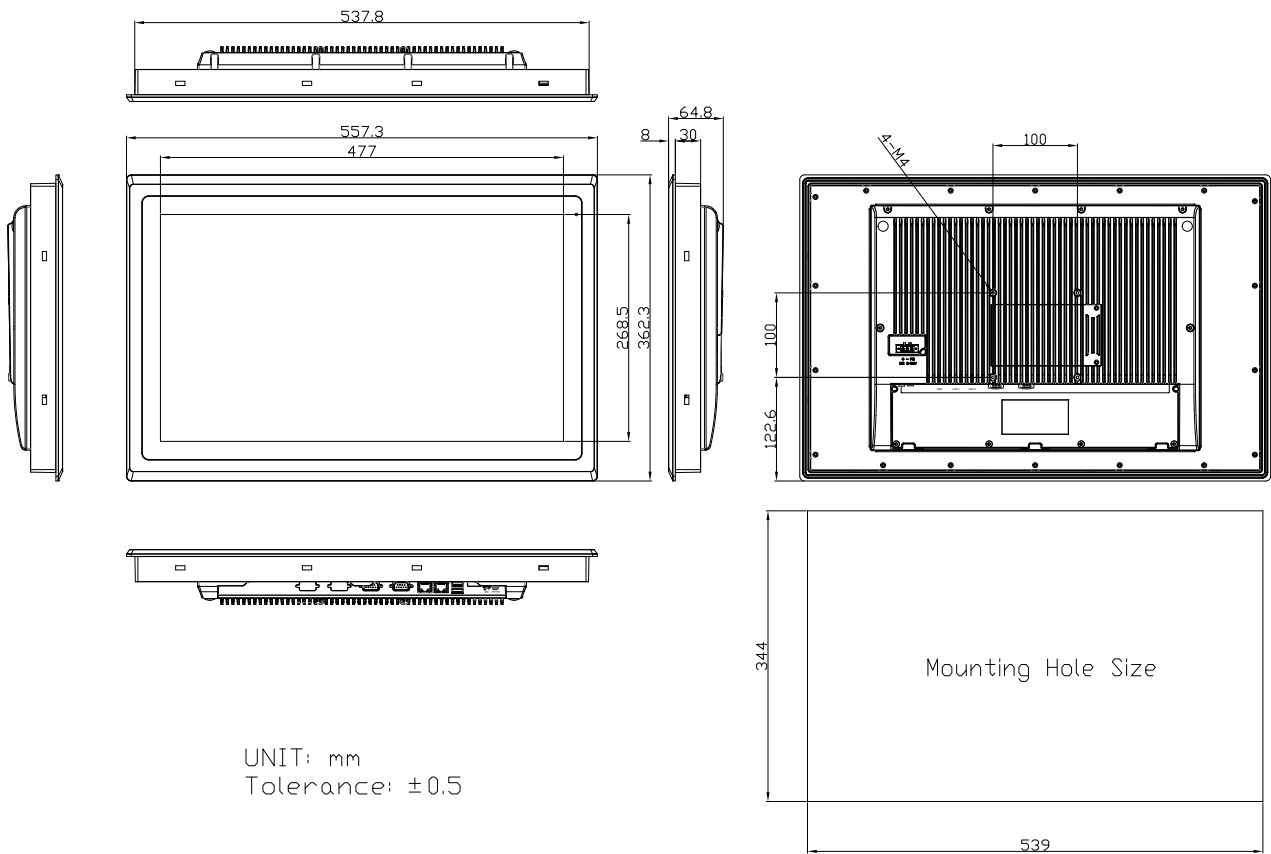










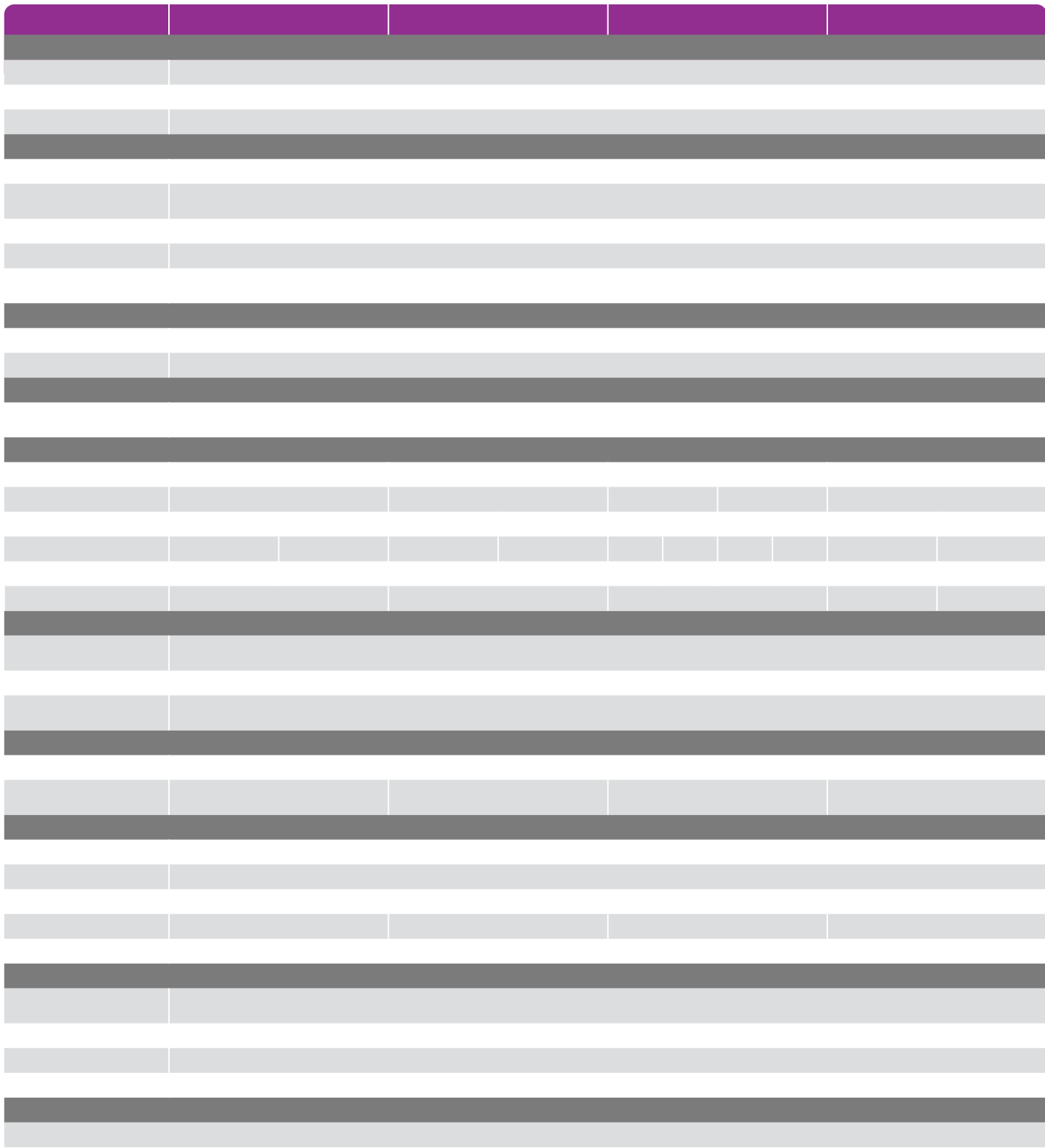


UNIT: mm
Tolerance: ±0.5

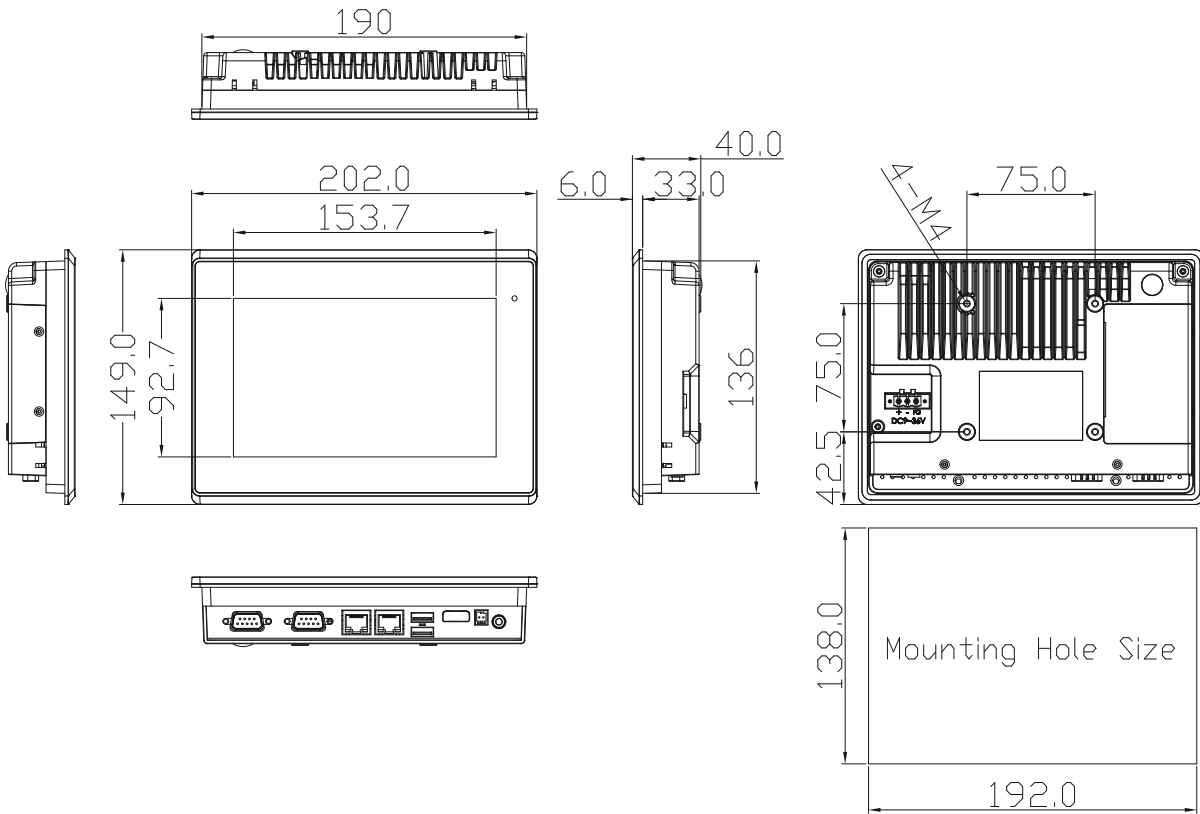
Ordering information

Model NO.	Description
ARCHMI-912A	12.1" SVGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-912AP	12.1" SVGA fanless HMI barebone with Intel 6 th Gen Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-915A	15" XGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-915AP	15" XGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-916A	15.6" WXGA fanless HMI barebone with Intel 6 th Gen.. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-916AP	15.6" WXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-917A	17" SXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-917AP	17" SXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-918A	18.5" WXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-918AP	18.5" WXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-919A	19" SXGA fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-919AP	19" SXGA fanlessHMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-921A	21.5" FHD fanless HMI barebone with Intel 6 th Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-921AP	21.5" FHD fanless HMI barebone with Intel 6 th Gen. Core i3-6100U CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-932AP	32" FHD fanless HMI barebone with Intel 6 th Gen. Core i3-6100U CPU, 4GB DDR4 RAM, Projected Capacitive touch, AC 90~264V input, Aluminum chassis.



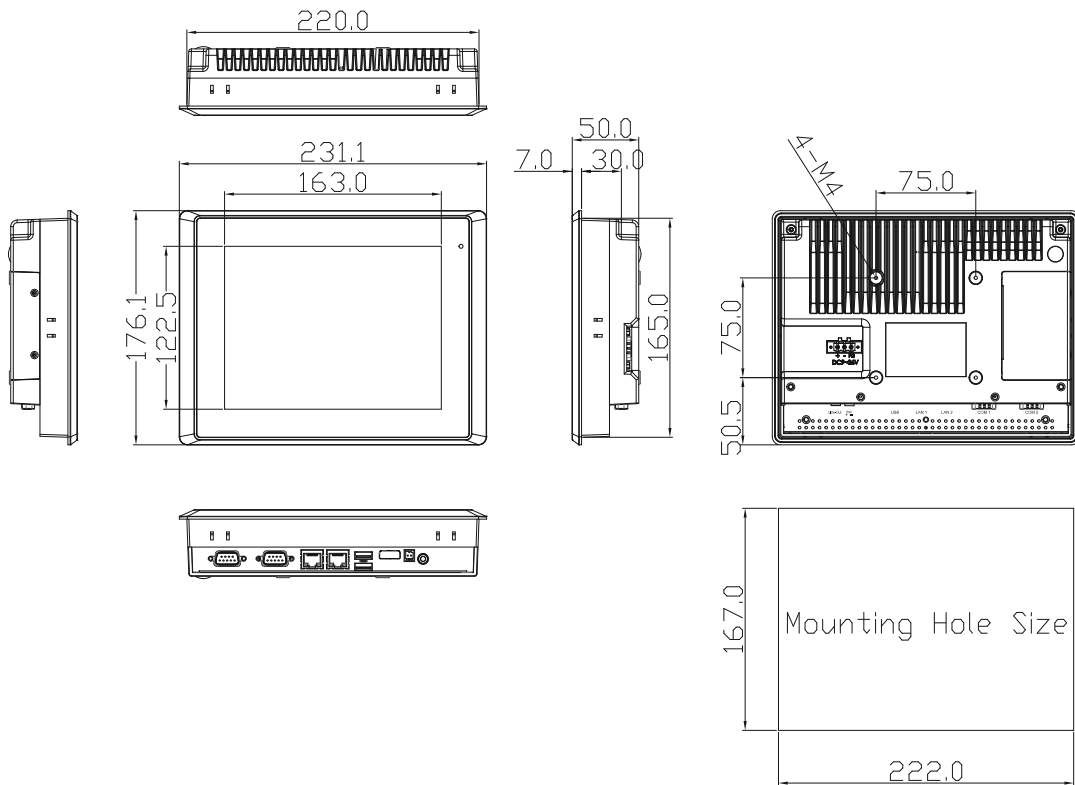


ARCHMI-807A/R/P/H



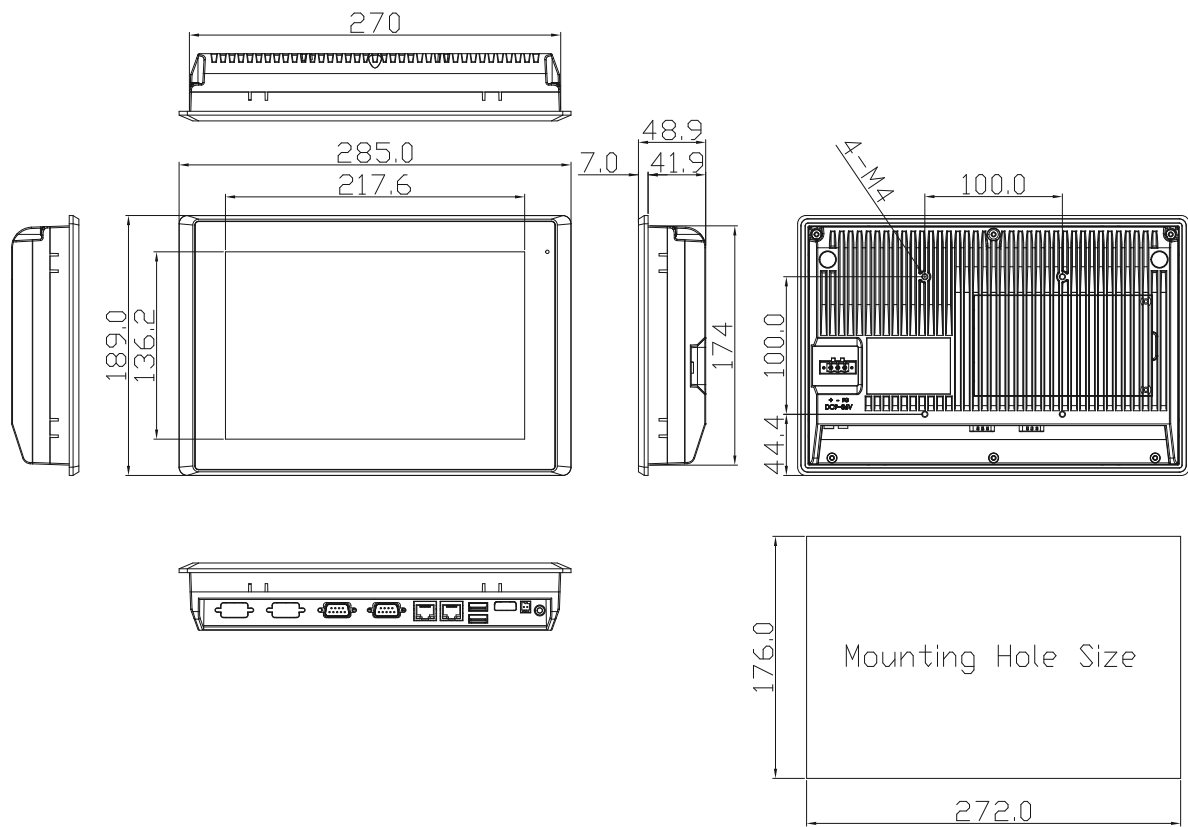
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ARCHMI-808A/R/P/H



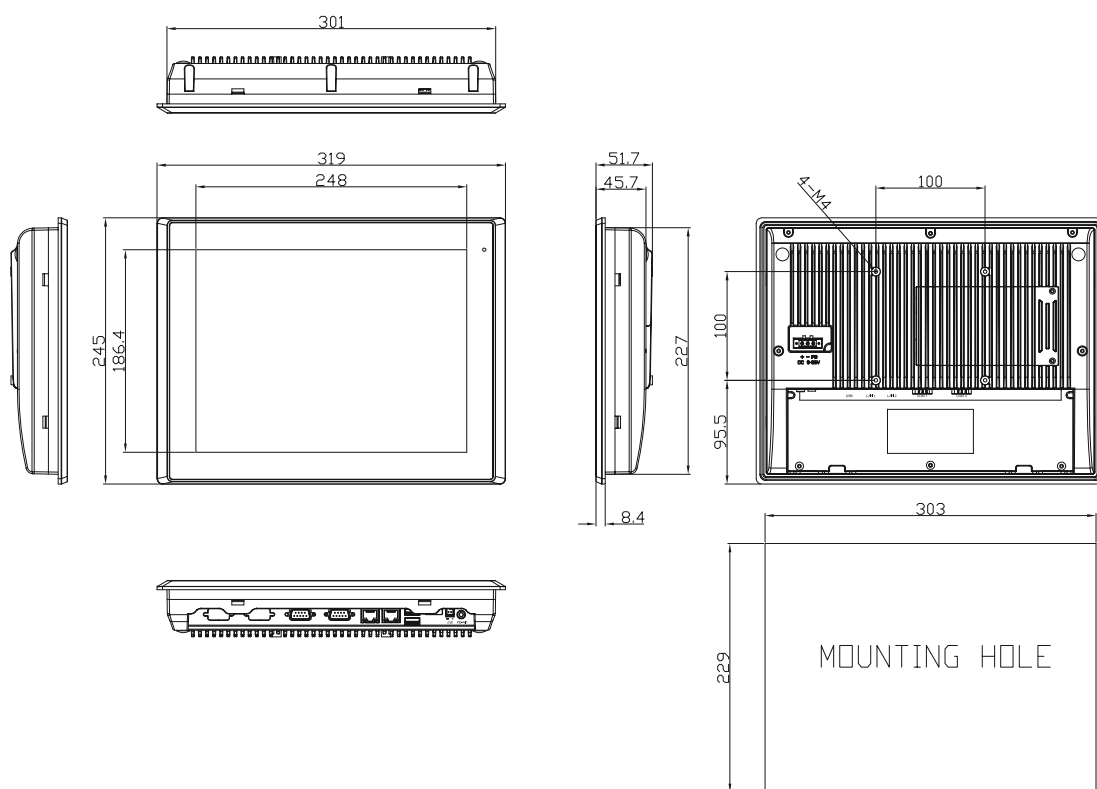
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ARCHMI-810A/R/P/H



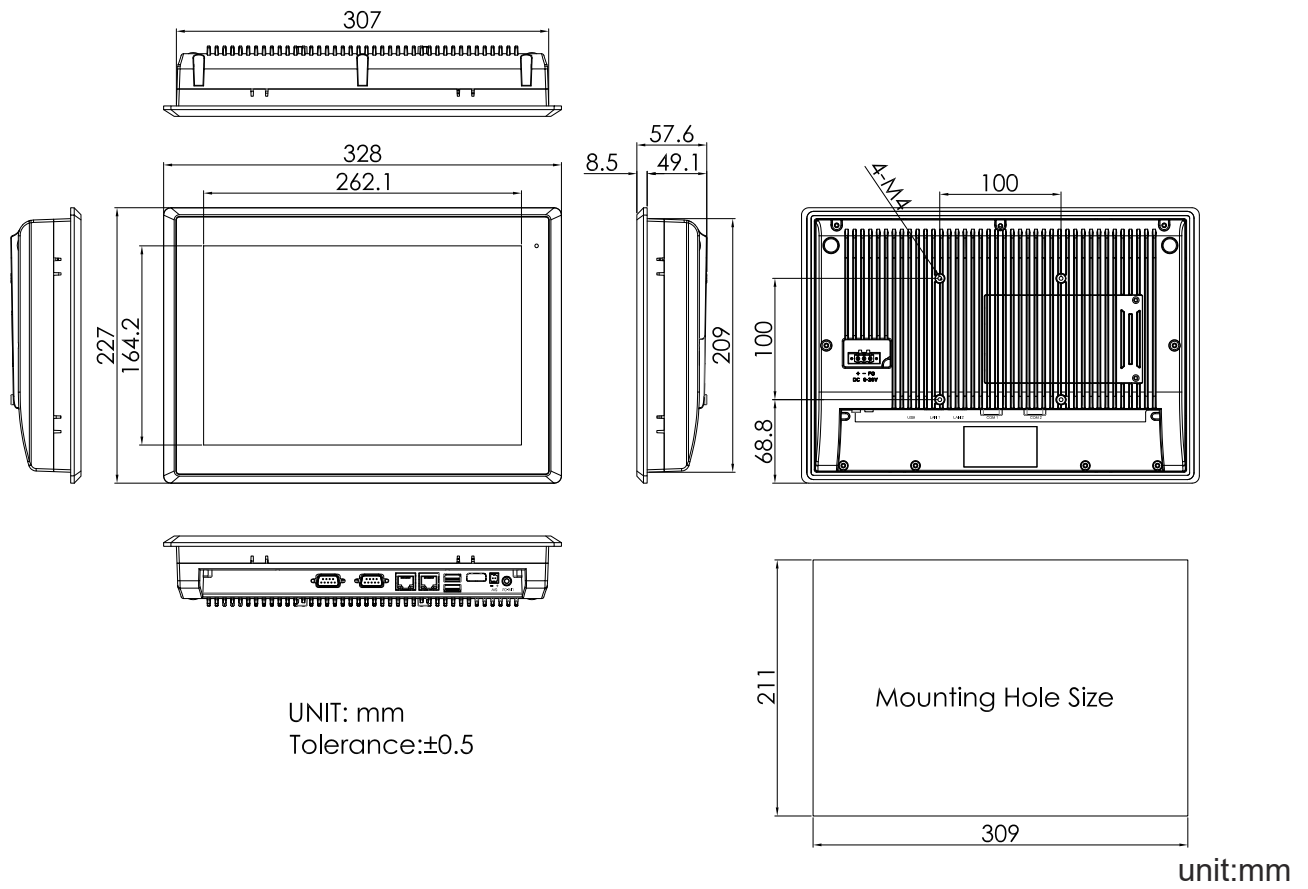
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ARCHMI-812A/R/P/H



unit:mm

ARCHMI-812WA/R/P/H



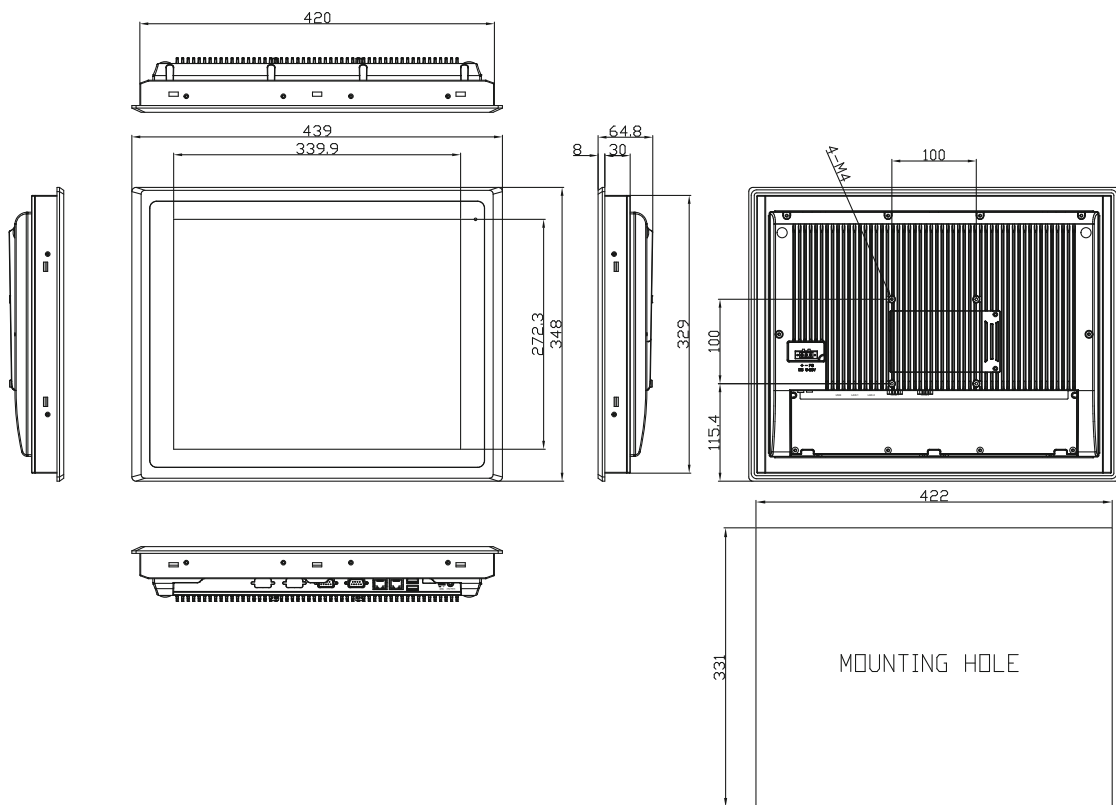
ARCHMI-815A/R/P/H

unit:mm

ARCHMI-816A/R/P/H

unit:mm

ARCHMI-817A/R/P/H



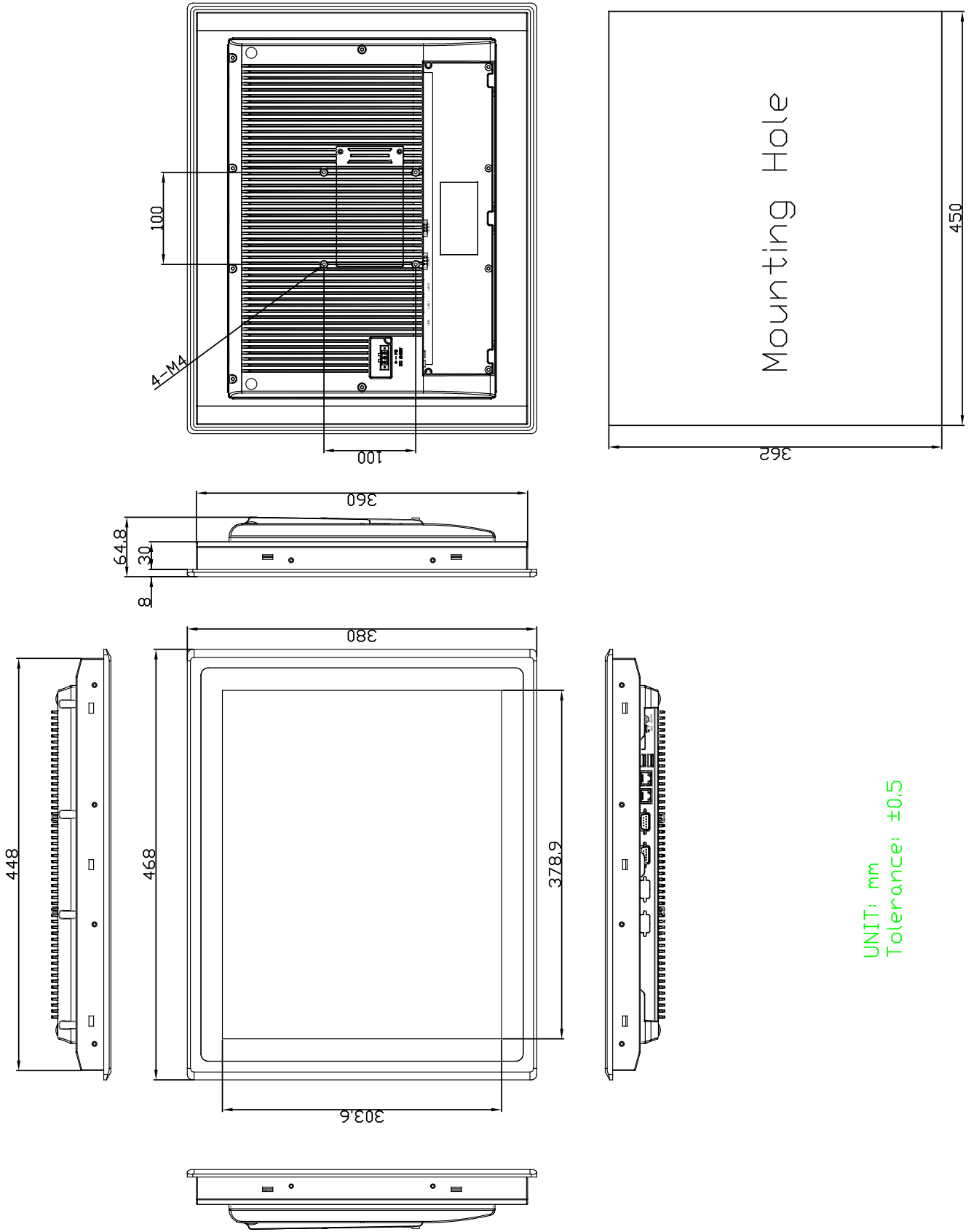
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ARCHMI-818A/R/P/H

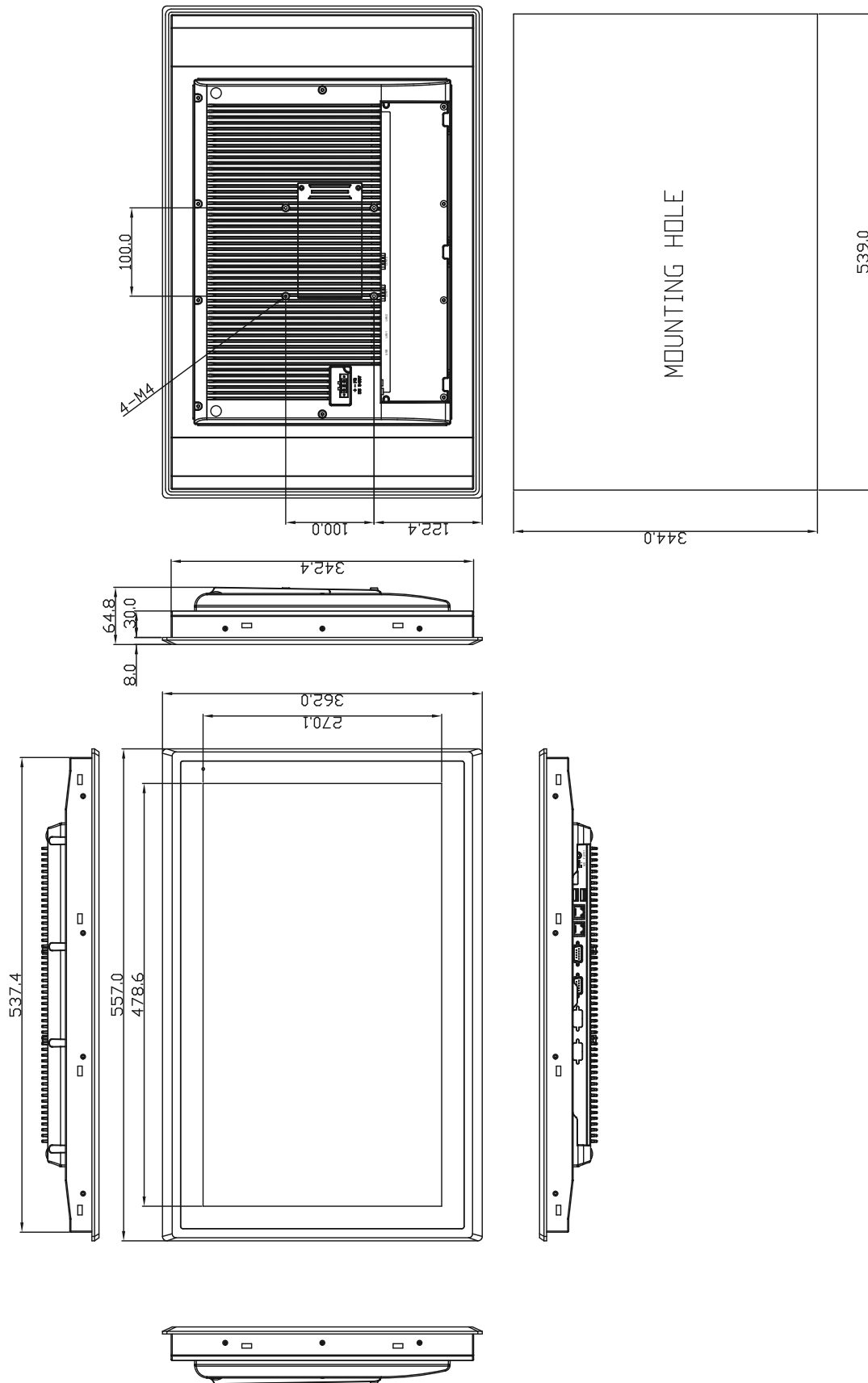
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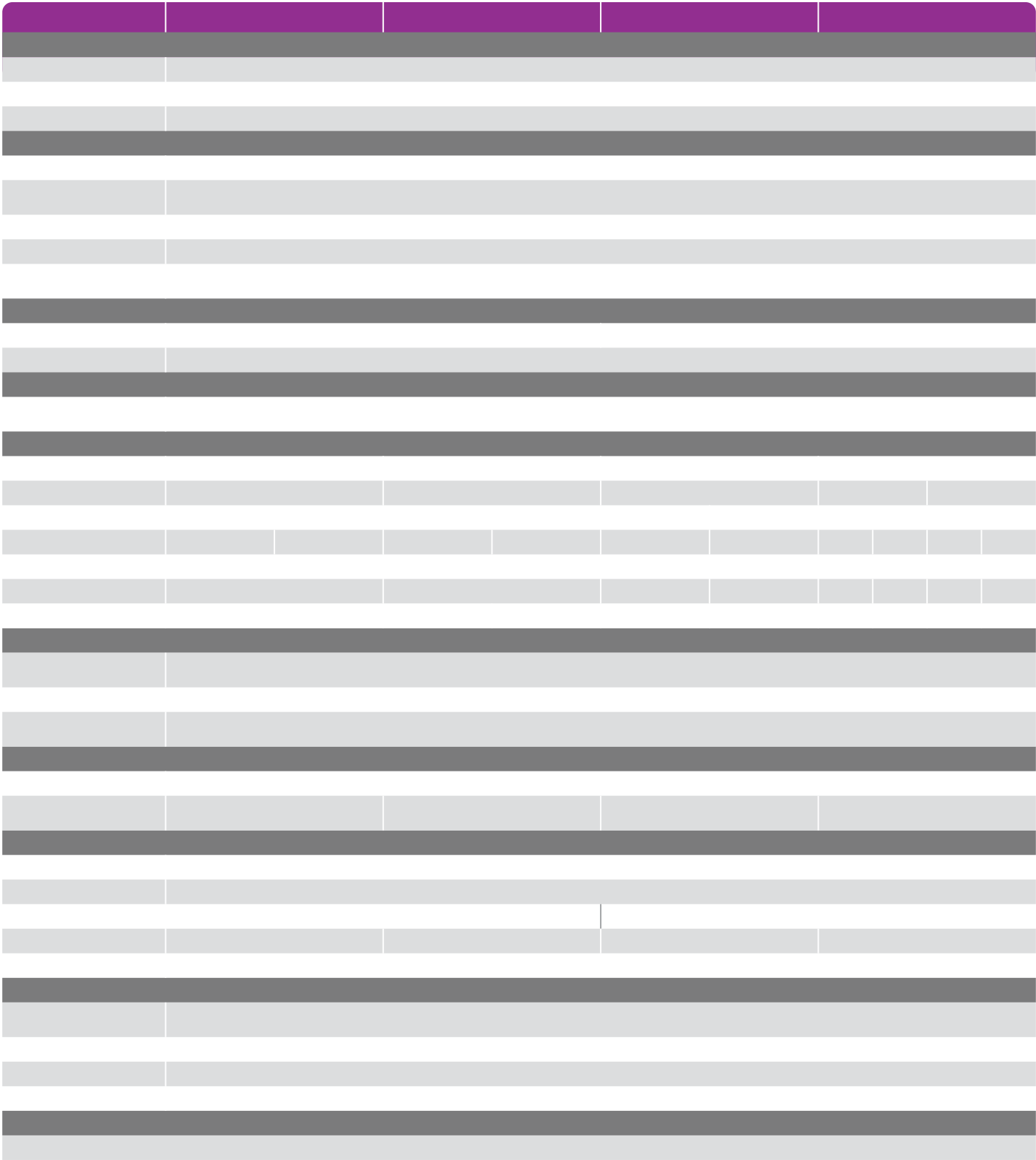
ARCHMI-819A/R/P/H

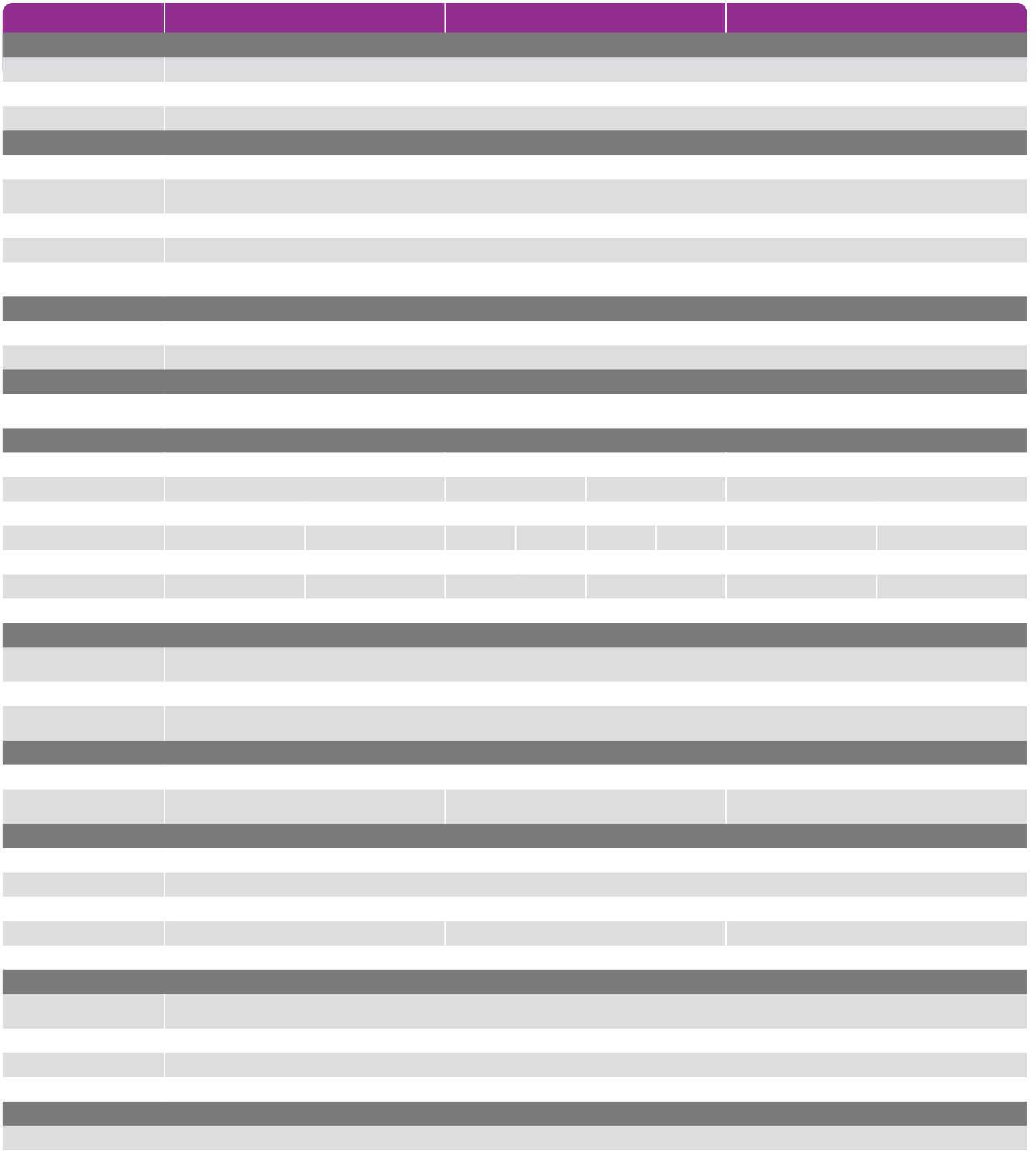


UNIT: mm
Tolerance: ±0.5

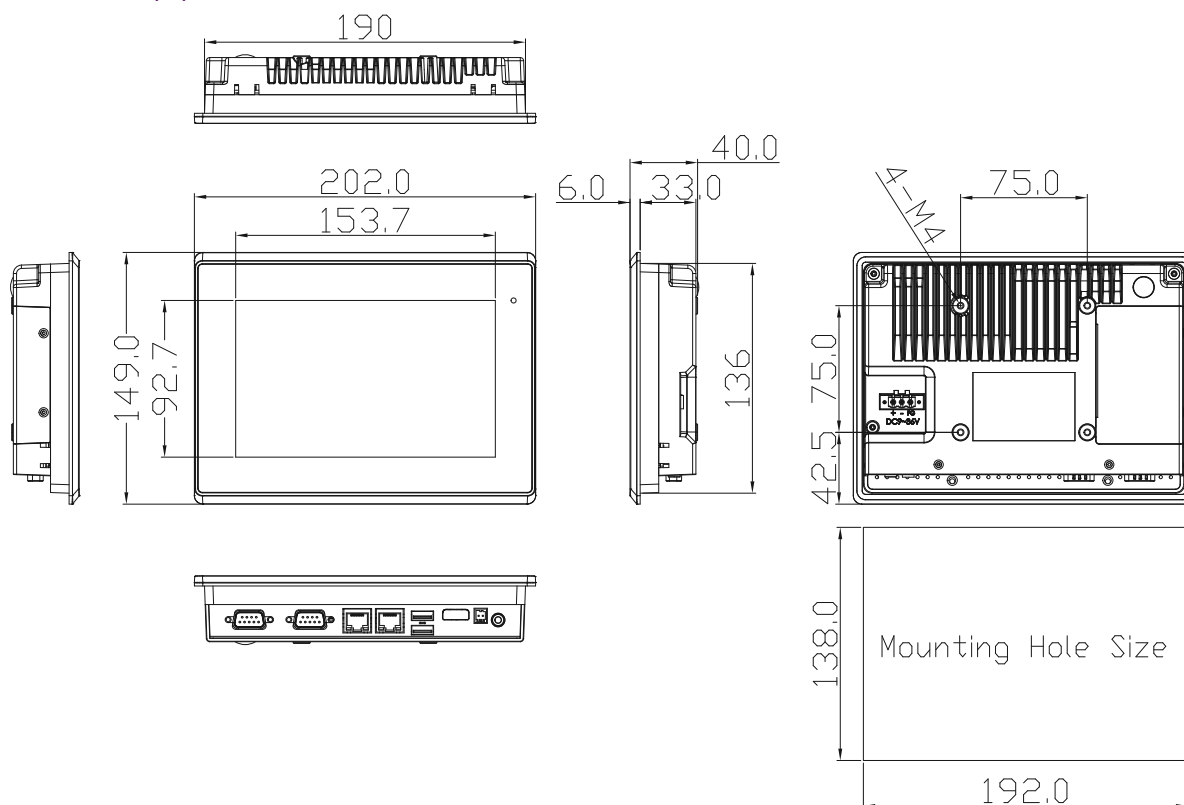
ARCHMI-821A/R/P/H





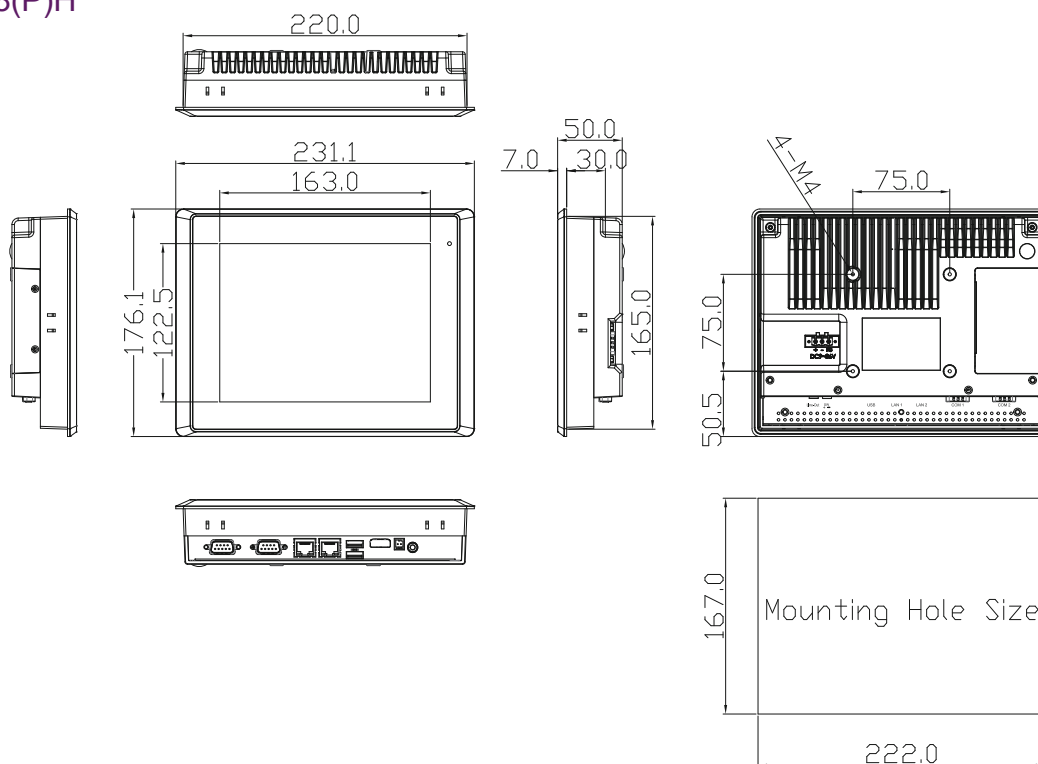


ARCHMI-807(P)
ARCHMI-807(P)H



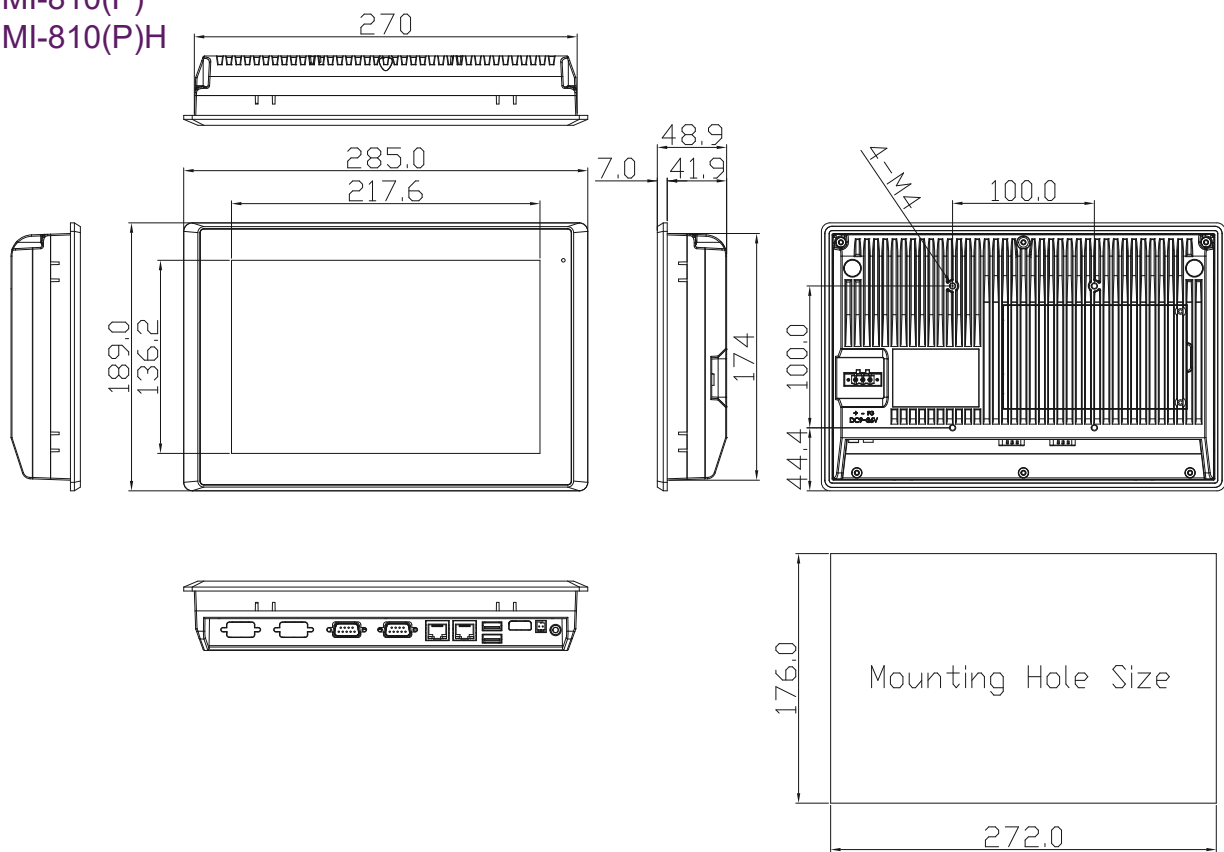
unit:mm

ARCHMI-808(P)
ARCHMI-808(P)H



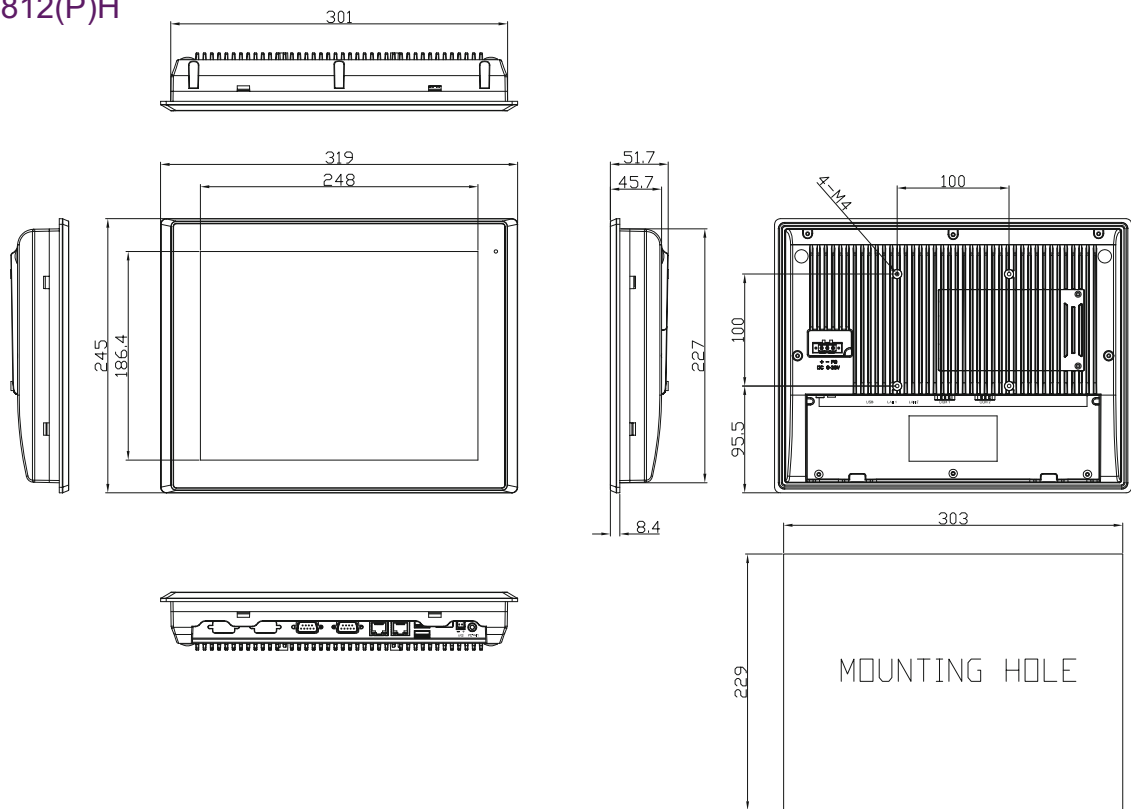
unit:mm

ARCHMI-810(P)
ARCHMI-810(P)H



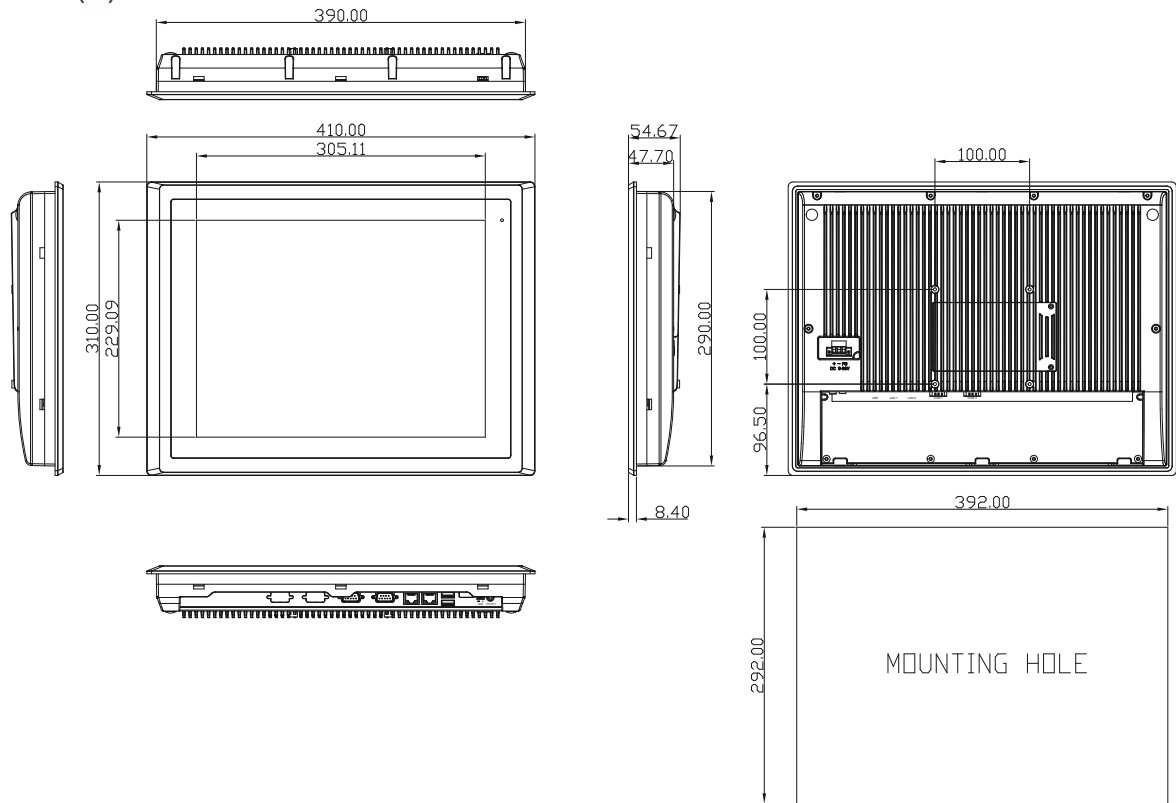
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ARCHMI-812(P)
ARCHMI-812(P)H



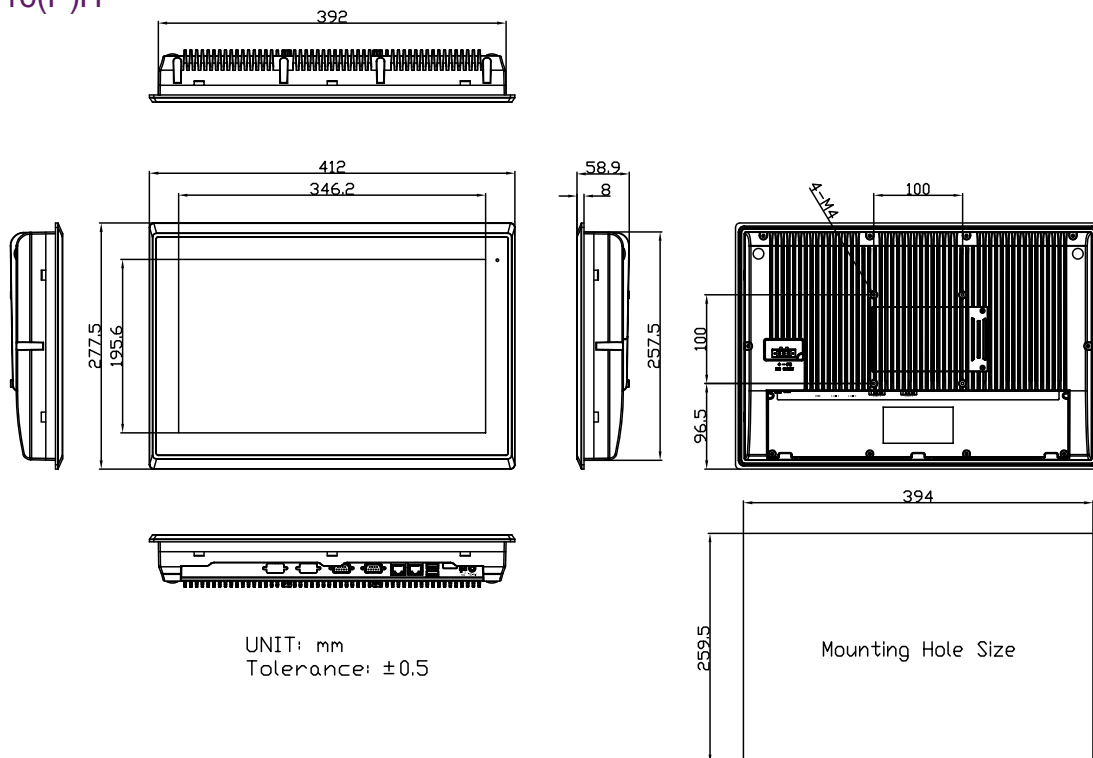
unit:mm

ARCHMI-815(P)
ARCHMI-815(P)H



unit:mm

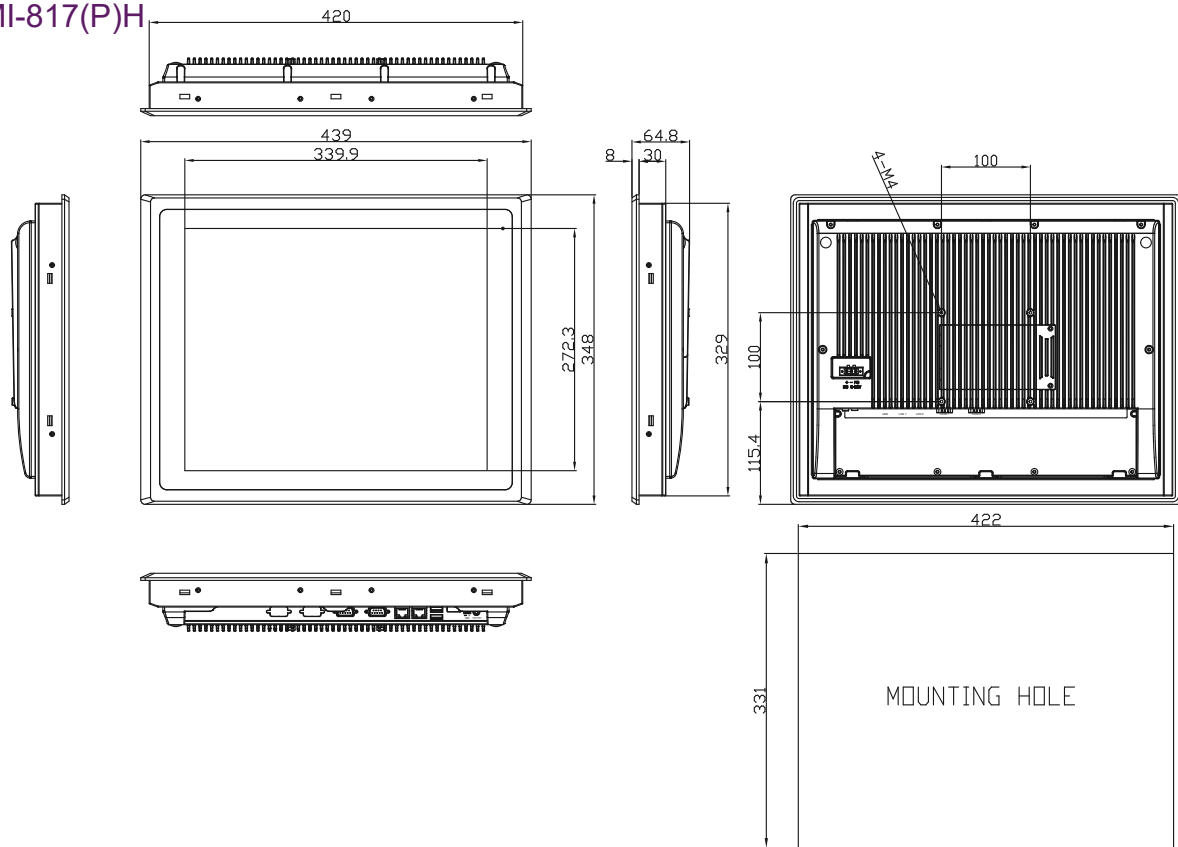
ARCHMI-816(P)
ARCHMI-816(P)H



UNIT: mm
Tolerance: ± 0.5

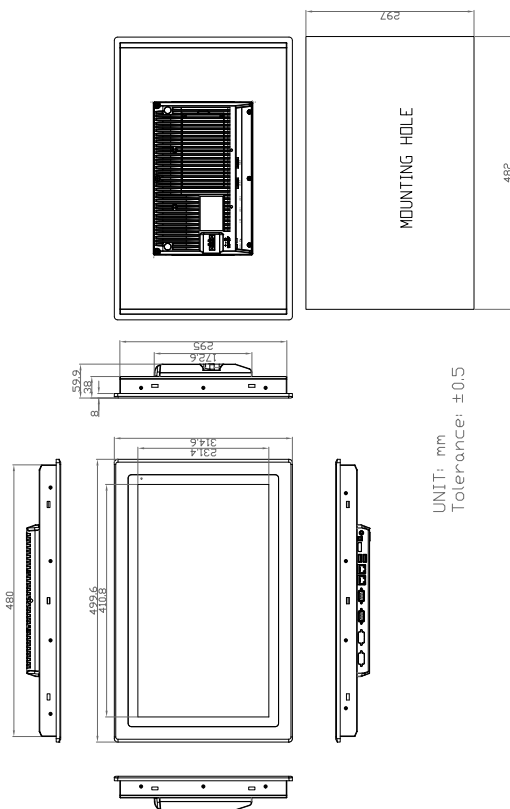
unit:mm

ARCHMI-817(P)
ARCHMI-817(P)H



unit:mm

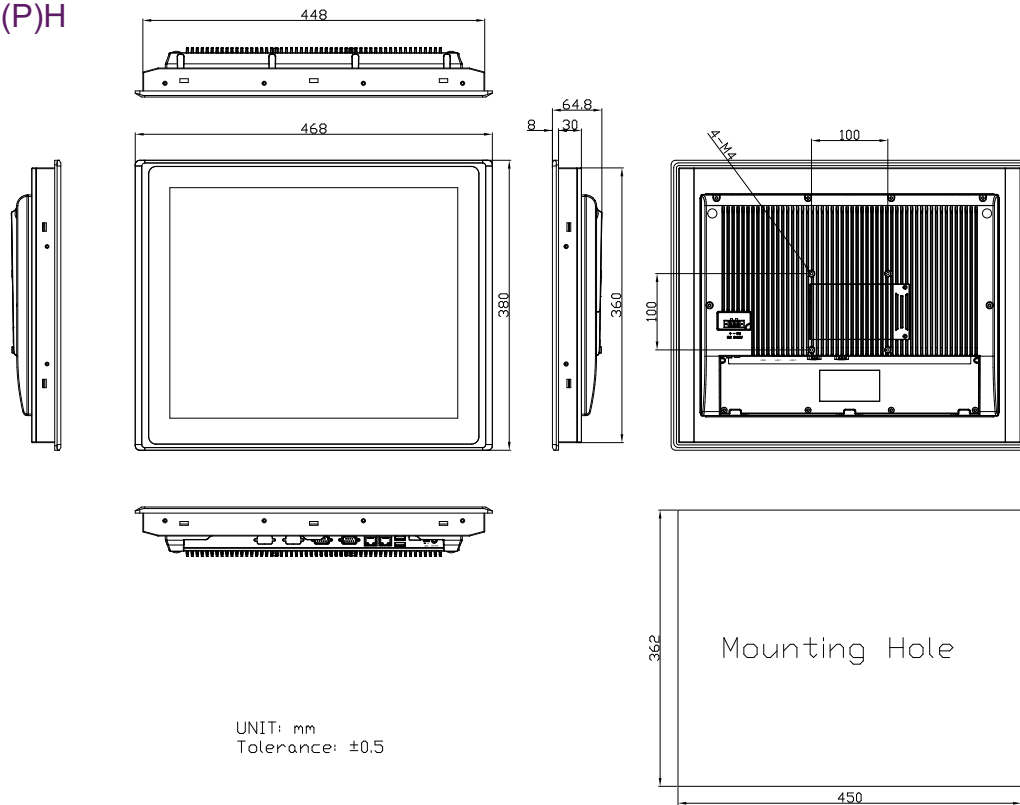
ARCHMI-818(P)



UNIT: mm
Tolerance: ±0.5

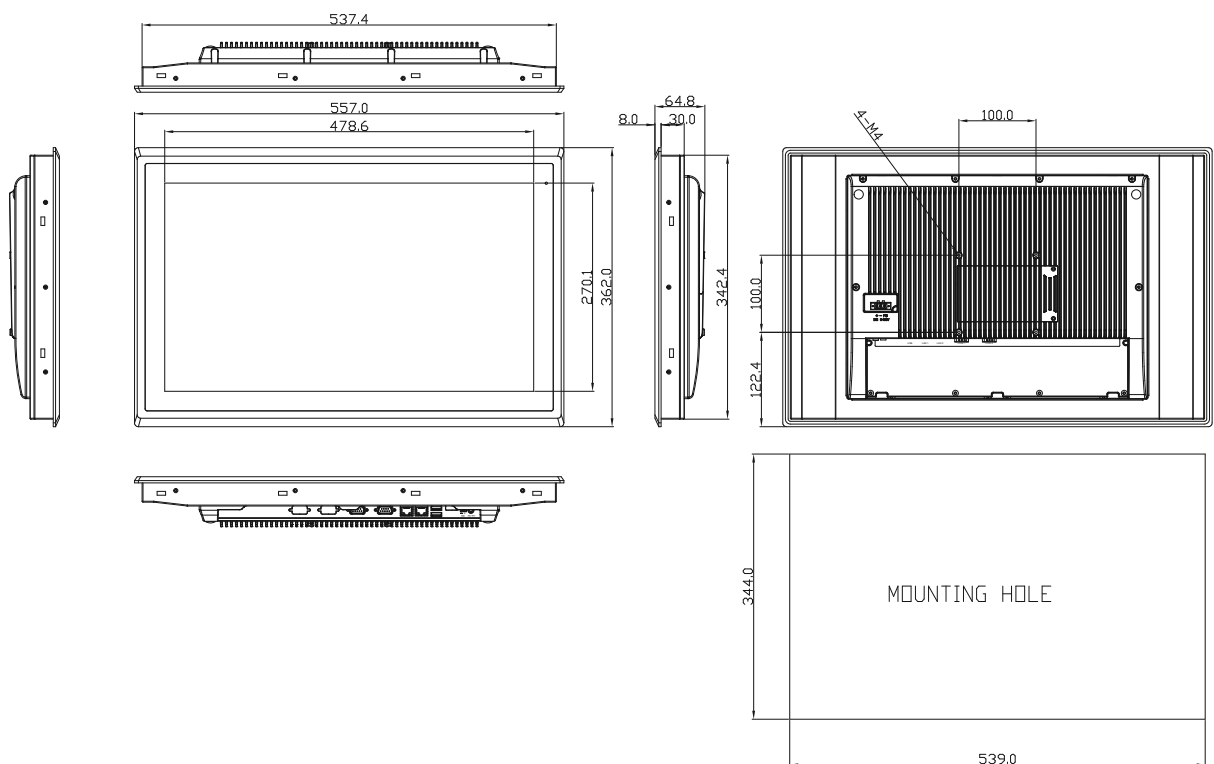
unit:mm

ARCHMI-819(P)
ARCHMI-819(P)H



unit:mm

ARCHMI-821(P)
ARCHMI-821(P)H



unit:mm

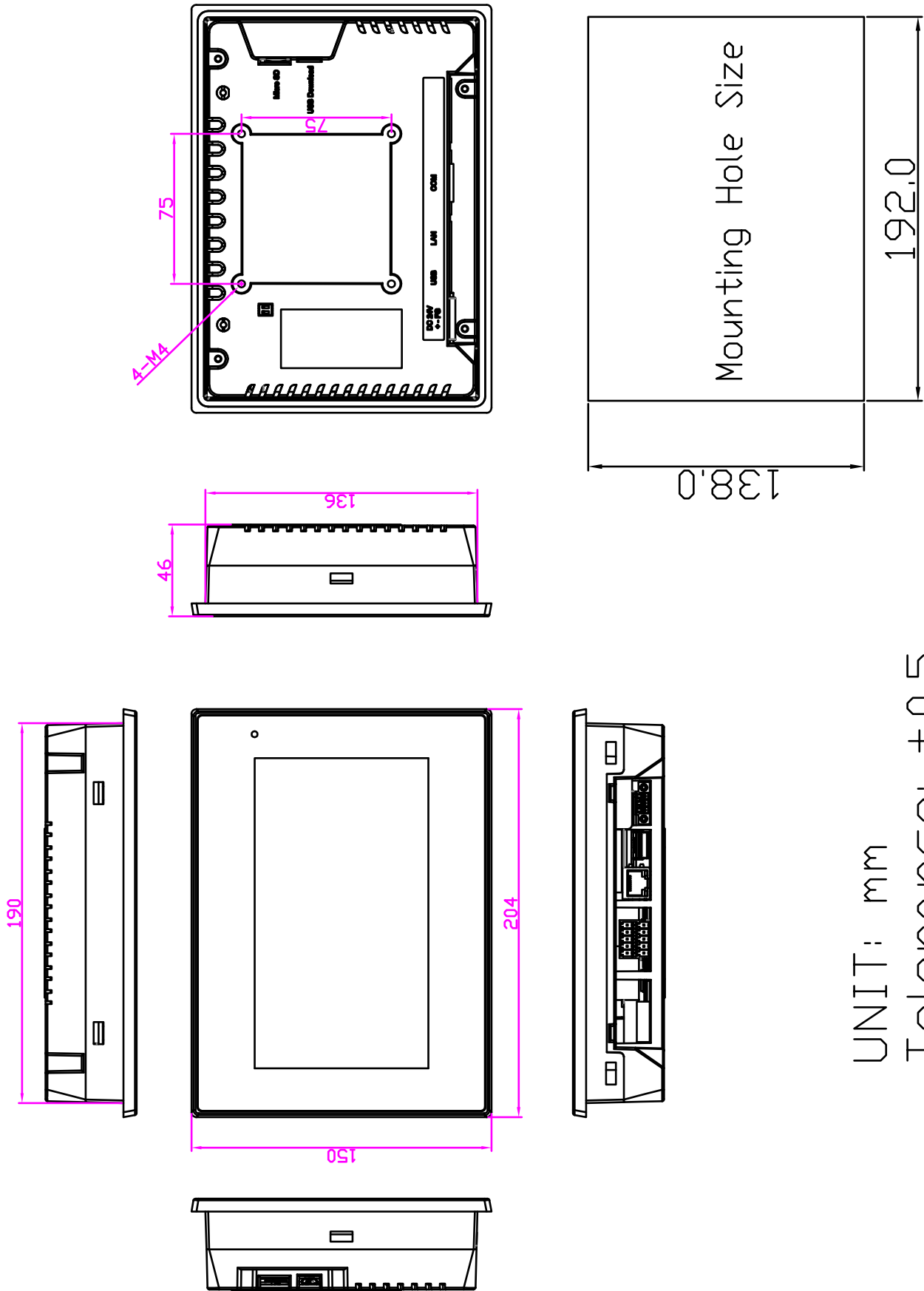
Ordering information

Model NO.	Description
ARCHMI-807	7" WVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-807P	7" WVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-808	8" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-808P	8" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-810	10.1" WXGA fanless HMI barebone with Celeron N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-810P	10.1" WXGA fanless HMI barebone with Celeron N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-812	12.1" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-812P	12.1" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-815	15" XGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-815P	15" XGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-816	15.6" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-816P	15.6" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-817	17" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-817P	17" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-818	18.5" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-818P	18.5" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-819	19" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-819P	19" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-821	21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis
ARCHMI-821P	21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis

Model NO.	Description
ARCHMI-807H	7" WVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-807PH	7" WVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-808H	8" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-808PH	8" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-810H	10.1" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-810PH	10.1" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-812H	12.1" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-812PH	12.1" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-815H	15" XGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-815PH	15" XGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-816H	15.6" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-816PH	15.6" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-817H	17" SXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-817PH	17" SXGA fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-818H	18.5" WXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-818PH	18.5" WXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-819H	19" SXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-819PH	19" SXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-821H	21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-821PH	21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD



ARMPAC-607B(P)



UNIT: mm
Tolerance: ±0.5

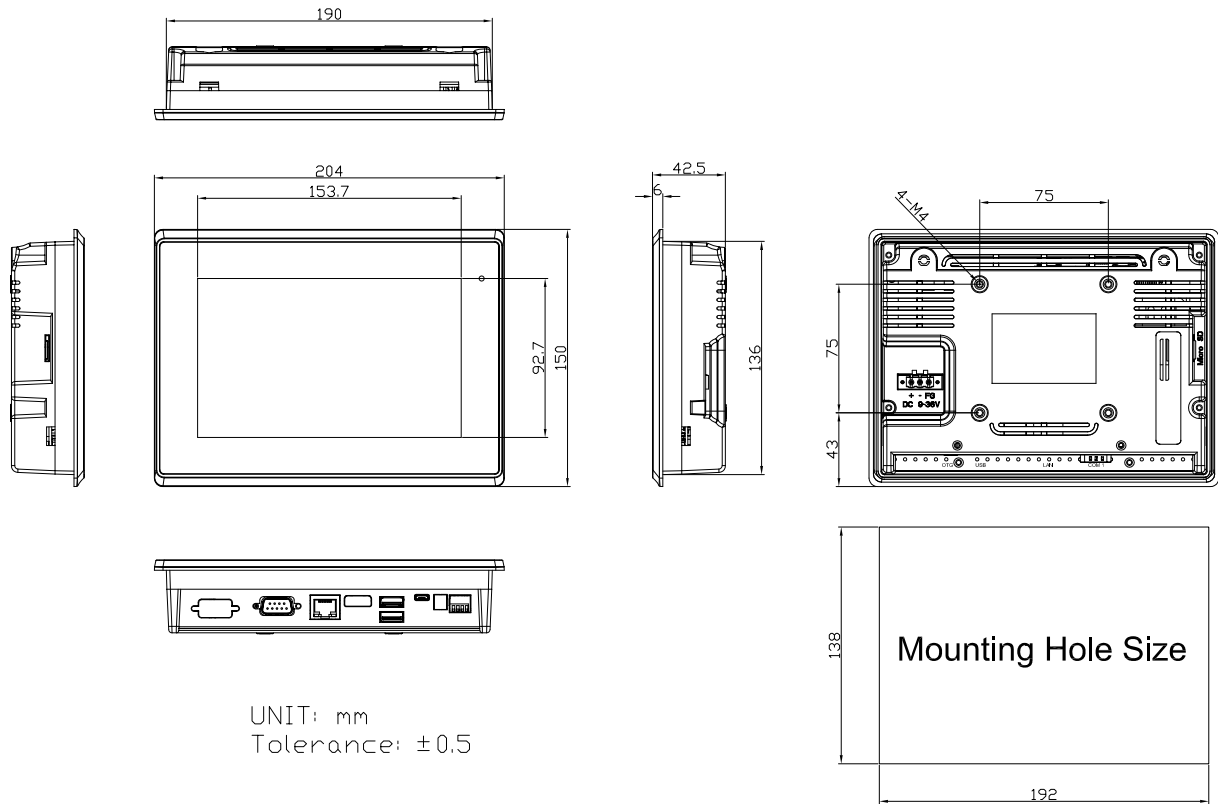
unit:mm

Ordering information

Model NO.	Description
ARMPAC-607BP	7" 800x480 fanless HMI barebone with Broadcom BCM2711 quad core ARM Cortex-A72,4GB LPDDR4 ,16/32GB eMMC,PCAP touch, 24V DC input with 3kV isolated, plastic chassis.
ARMPAC-610BP	10.1" 1280x800 fanless HMI barebone with Broadcom BCM2711 quad core ARM Cortex-A72,4GB LPDDR4 ,16/32GB eMMC,PCAP touch, 24V DC input with 3kV isolated, plastic chassis.

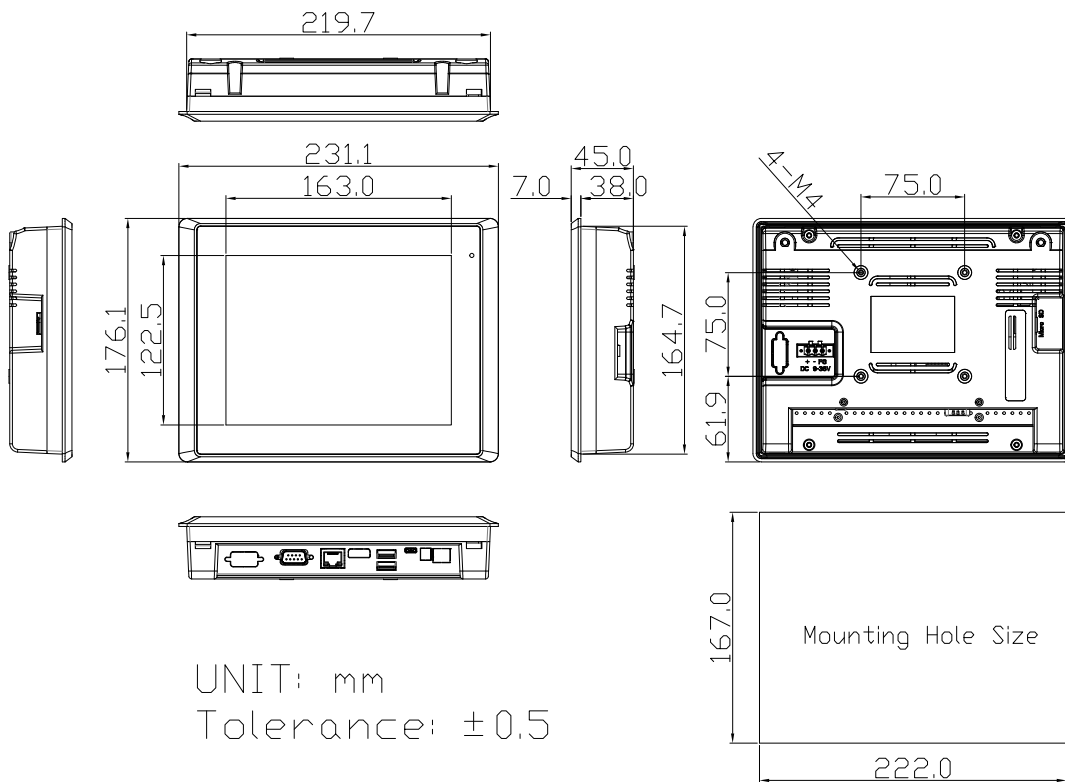


ARMPAC-607(P)



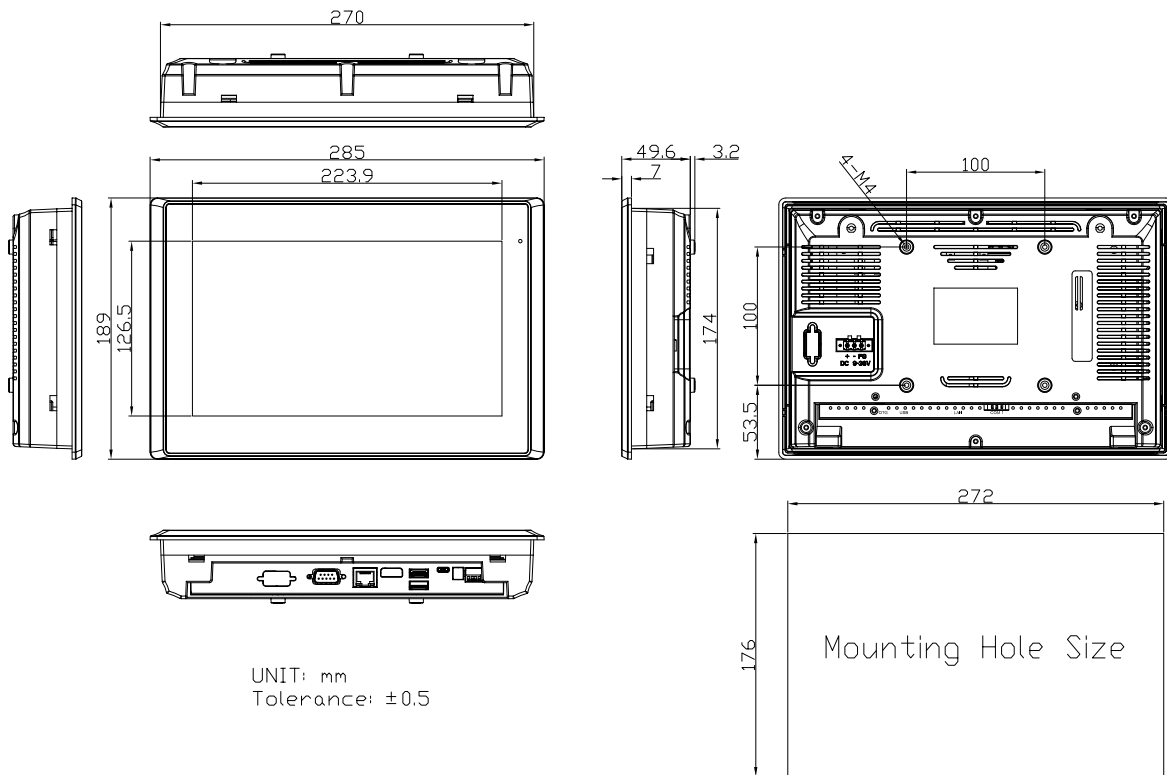
unit:mm

ARMPAC-608(P)



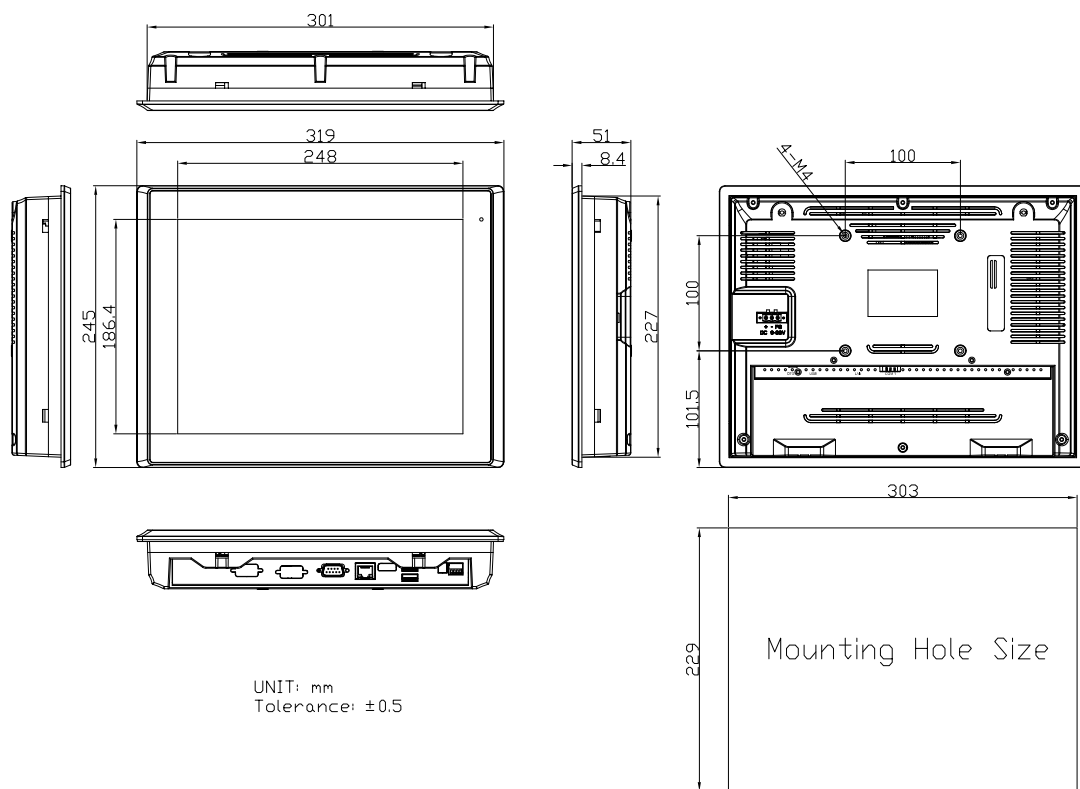
unit:mm

ARMPAC-610(P)



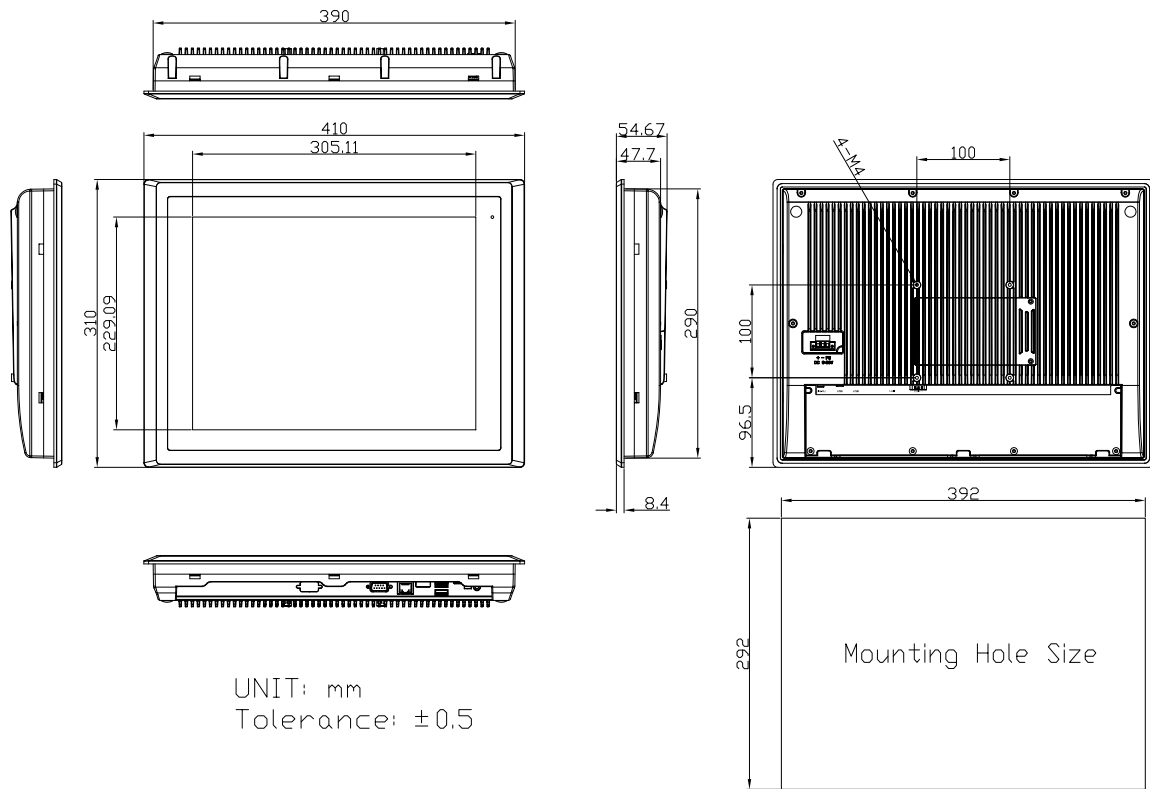
unit:mm

ARMPAC-612(P)



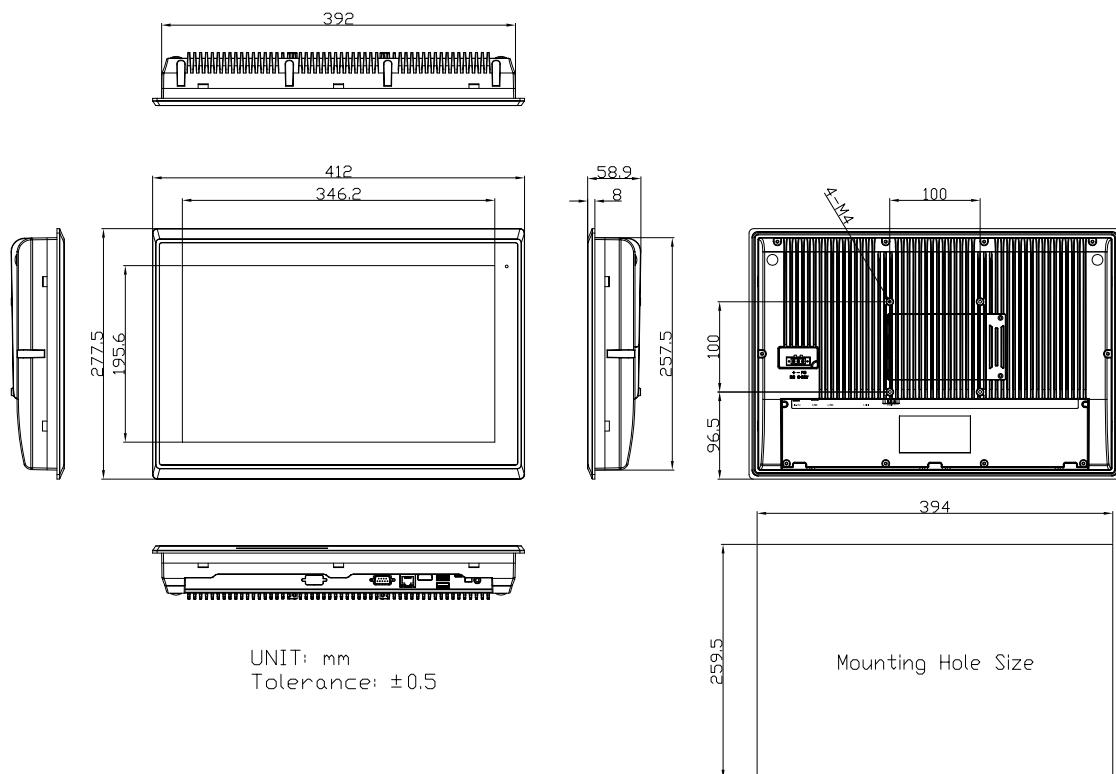
unit:mm

ARMPAC-615(P)



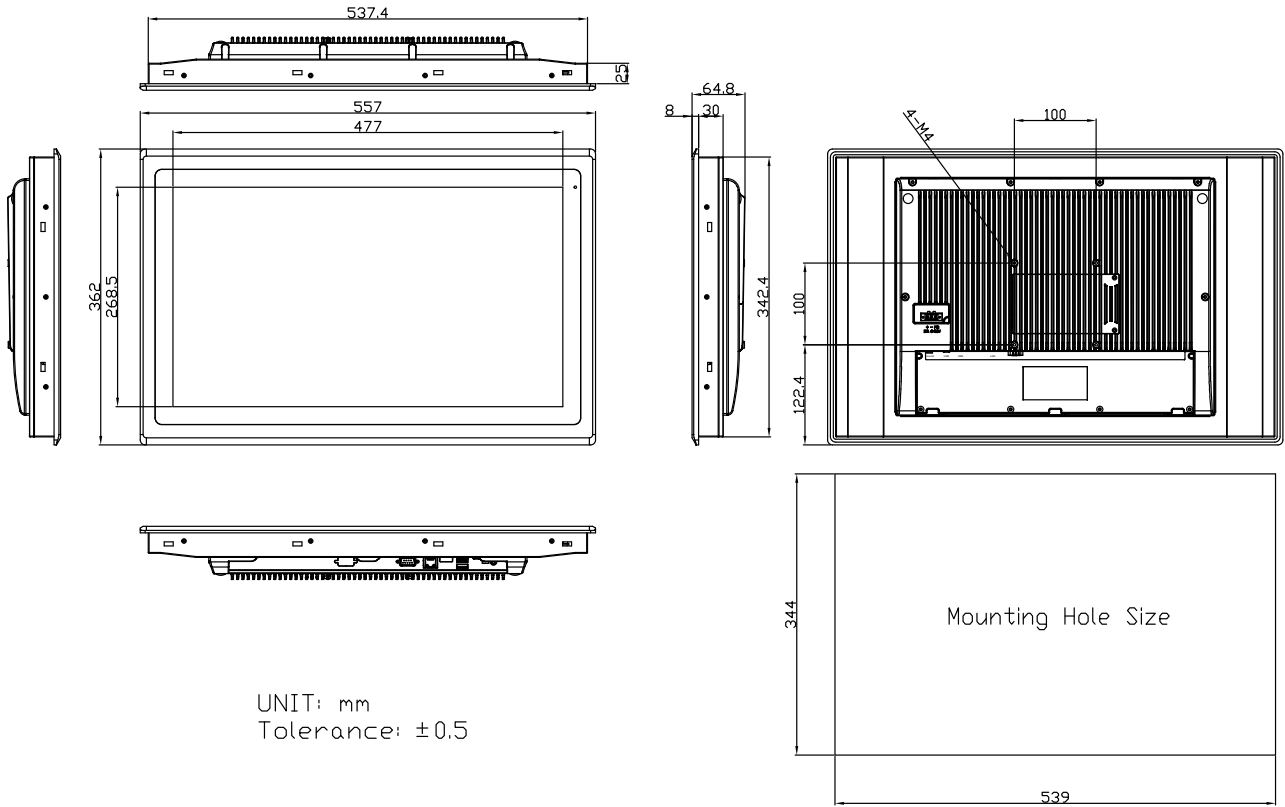
unit:mm

ARMPAC-616(P)



unit:mm

ARMPAC-621(P)



unit:mm

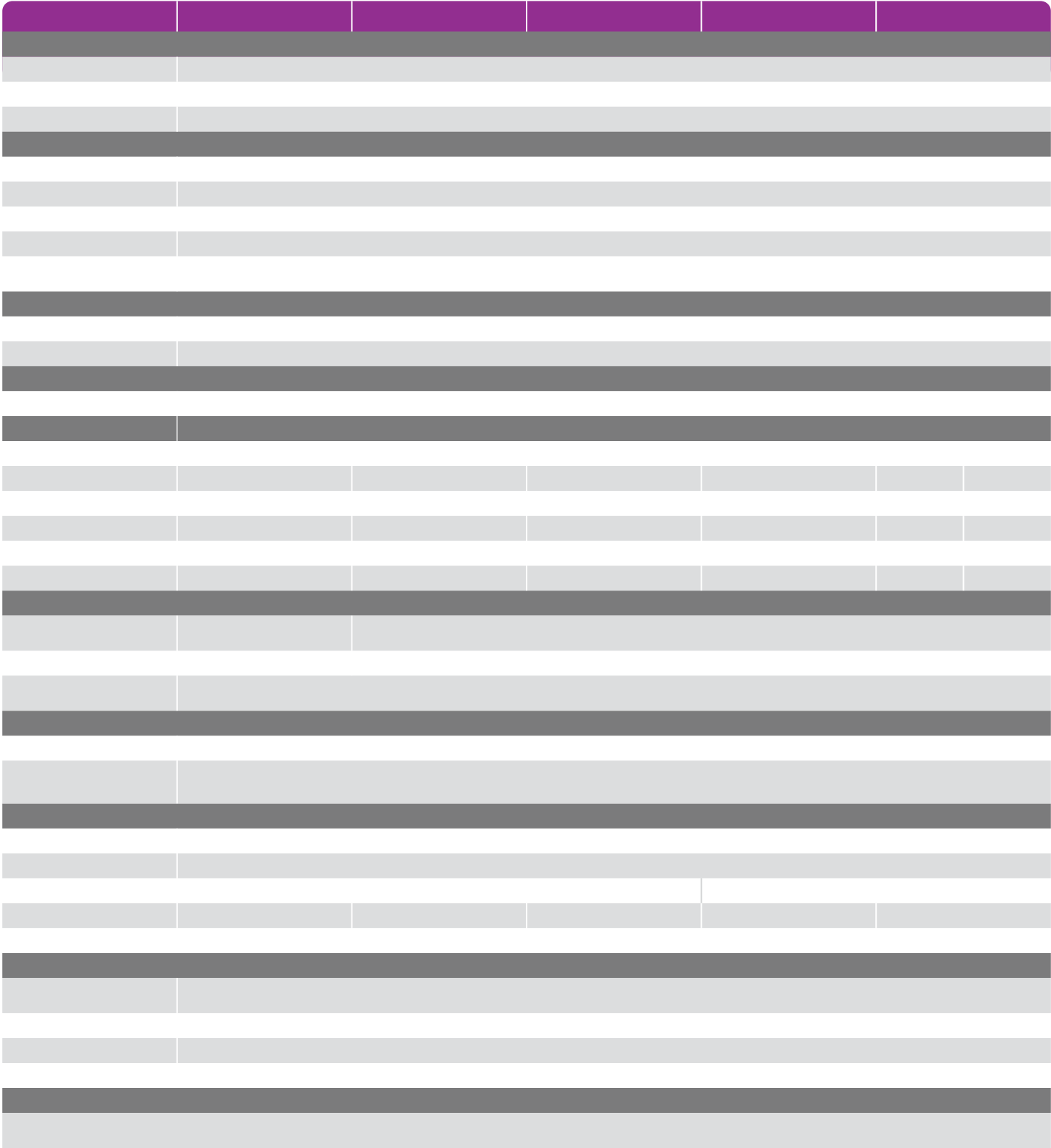
Ordering information

Model NO.	Description
ARMPAC-605	5.6" VGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-607	7" WVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-607P	7" WVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-608	8" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-608P	8" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-610	10.1" WSVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-610P	10.1" WSVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-612	12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-612P	12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-615	15" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-615P	15" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-616	15.6" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-616P	15.6" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-621	21.5" FHD fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-621P	21.5" FHD fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.

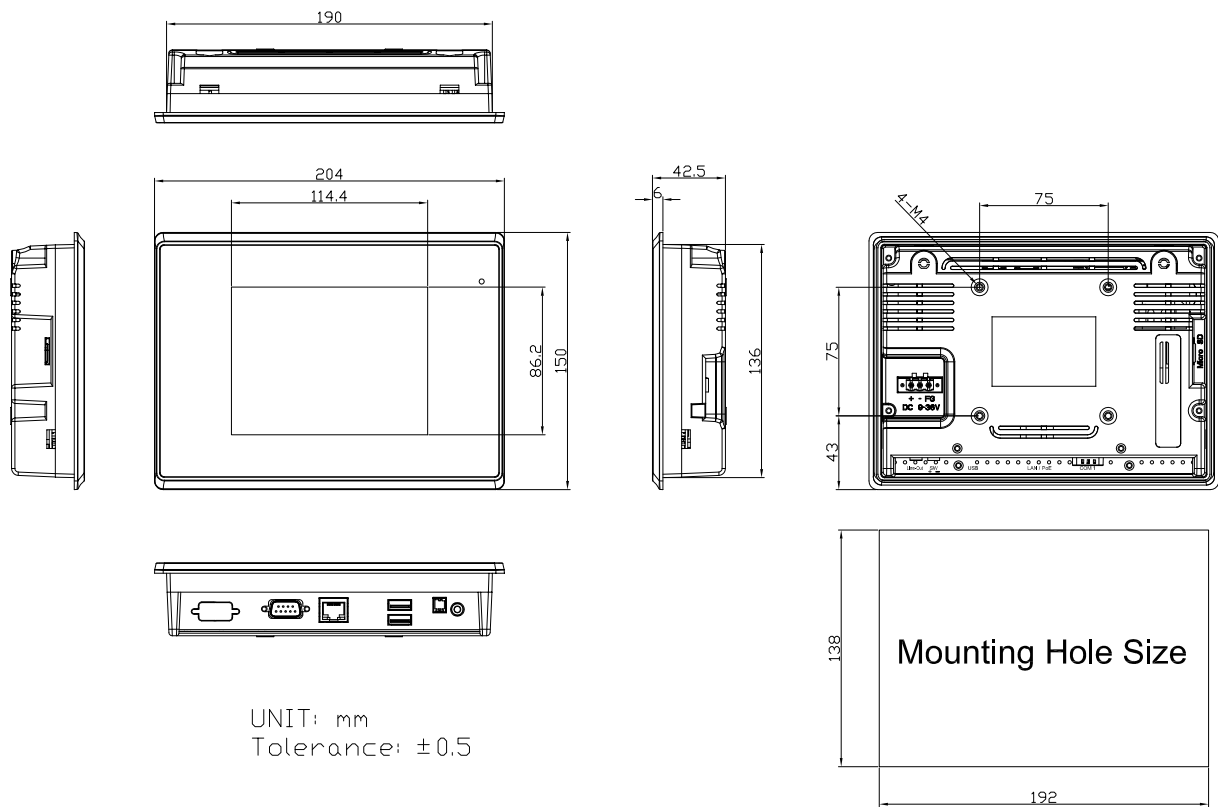


Low Power Consumption ARM Based HMI

- Ti-AM3354, ARM Cortex-A8 @ 1.0GHz
- Fanless ARM Based HMI
- Onboard 512MB up to 1GB DDR3 DRAM
- Onboard 512MB NAND Flash
- Flat Front Panel Touch Screen



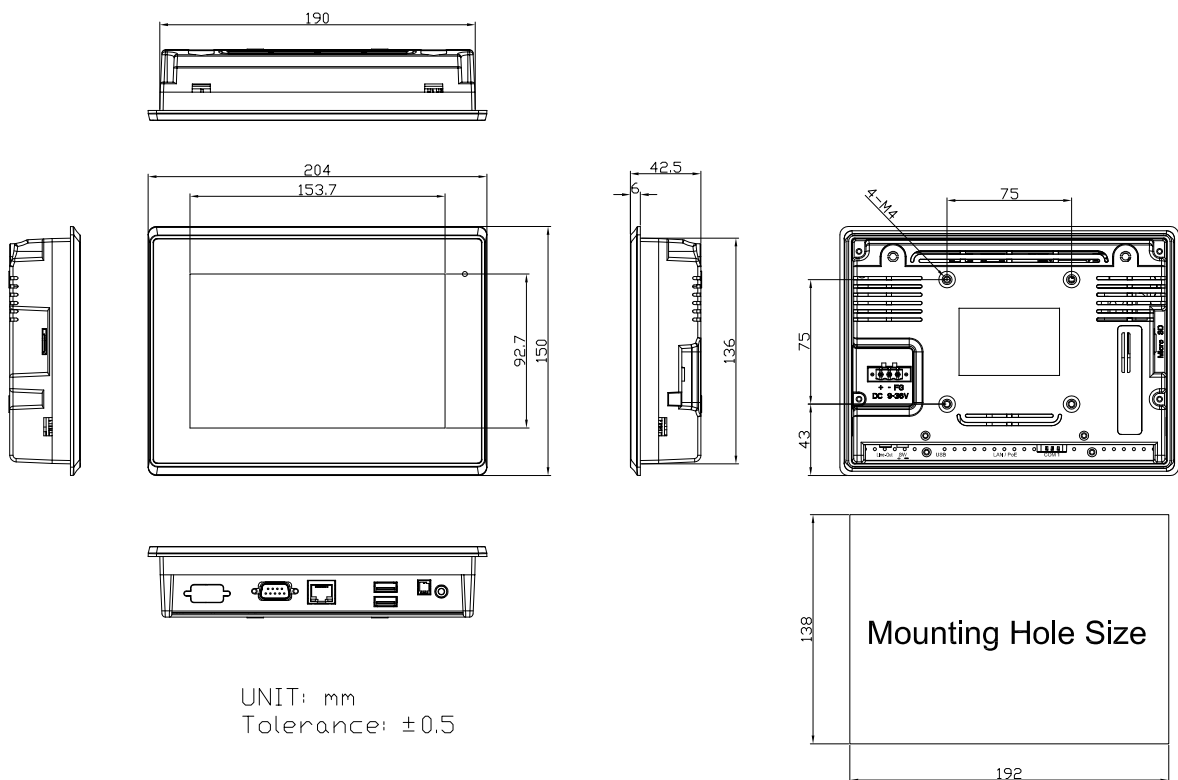
ARMPAC-505



UNIT: mm
Tolerance: ± 0.5

unit:mm

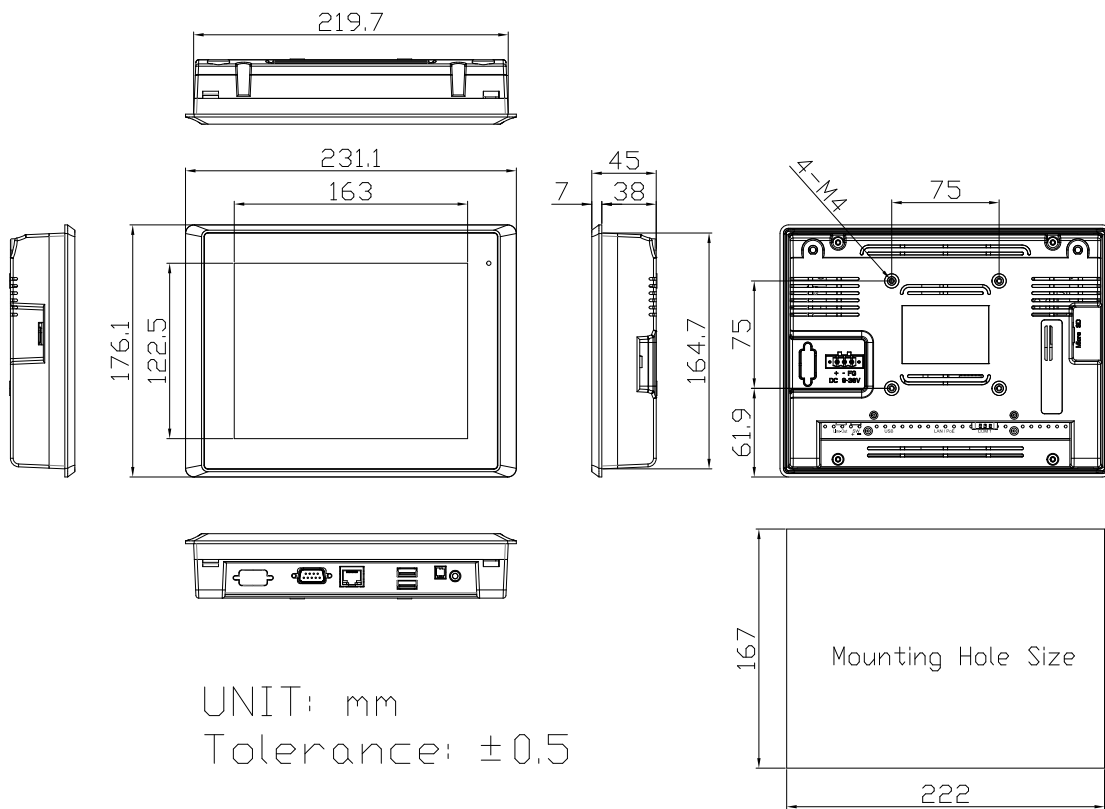
ARMPAC-507(P)



UNIT: mm
Tolerance: ± 0.5

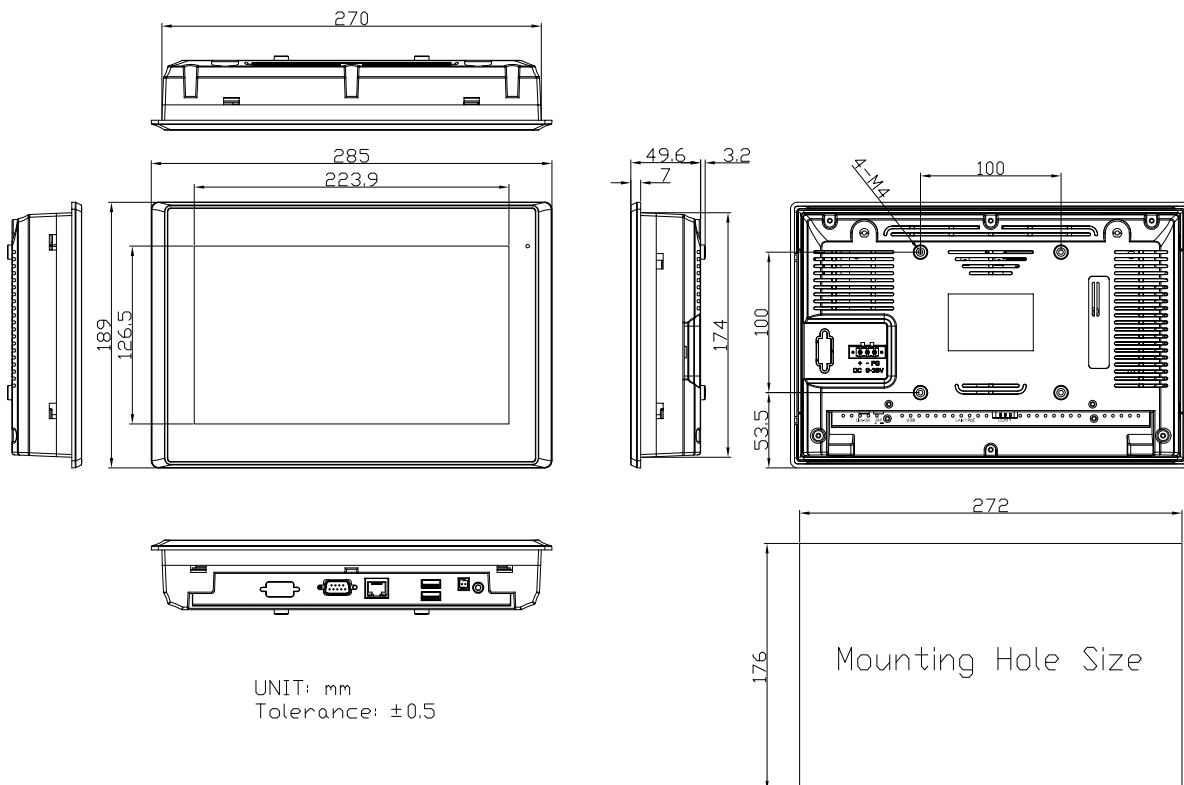
unit:mm

ARMPAC-508(P)



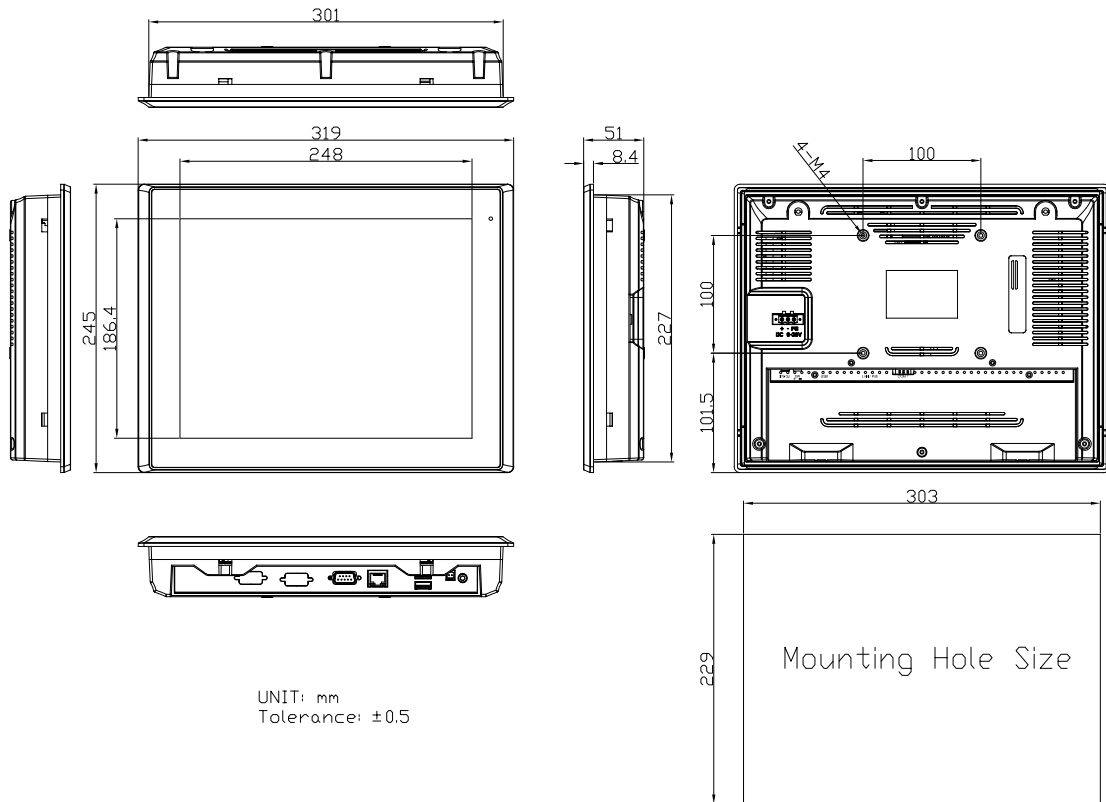
unit:mm

ARMPAC-510(P)



unit:mm

ARMPAC-512(P)



unit:mm

Ordering information

Model NO.	Description
ARMPAC-505	5.6" VGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-507	7" WVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-507P	7" WVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-508	8" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-508P	8" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-510	10.1" WSVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-510P	10.1" WSVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-512	12.1" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-512P	12.1" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.



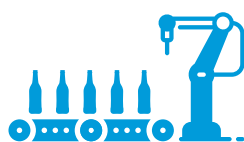
FABS-9XXAP/R(H)
FABS-8XXP/R(H)



**TAIWAN
EXCELLENCE
2019**



FABS Series



Food Safety Standard HMI
Perfect Solution to Hygienic Excellence

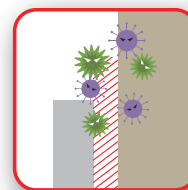
Build Up the Standard of Food and Beverage Industry

APLEX FABS series is the solution for strict sanitary environment. It is capable of preventing food or other materials from contaminating with sand, dirt, mold or bacteria in the manufacturing process. Also, we devote ourselves to achieve food safety standard with EN 1672-2 certification. APLEX new generation food safety design HMI focuses on optimizing food & beverage, pharmaceutical & consumer packed goods processing operation.

SUS 304 /316 Stainless Steel front bezel

The SUS 304 /316 stainless steel front bezel presents the great resistance to corrosion, cleaner, and chemical agent.

 Non-Toxic	 Anti-Corrosion	 Low Maintenance Cost	 Easy to Clean
 Anti-Oxidation	 Green Material 100% Recycle	 Wide Range Temperature Resistant	 Rugged Enclosure Long Life Cycle



IP66/69K Water-proof

With IP66/69K rated water and dust proof, you can maintain it easily by cleaning with high pressure and temperature water.

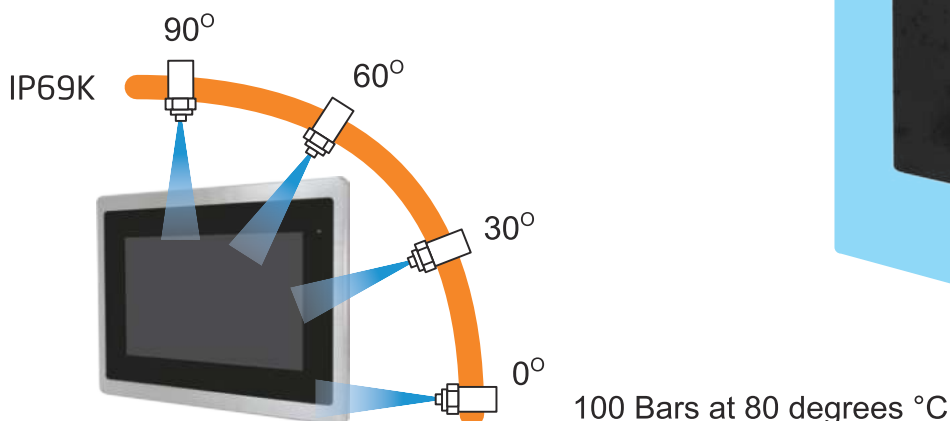


- Full-fledged protection from dust
- Protected against close-range high pressure, high temperature sprays down



- Full-fledged protection from dust
- Protected against multi-directional high-pressure water jets

Other Products



EN 1672-2 Certification

FABS Series comply with the food safety with international food safety grade requirement, EN 1672-2 certification, and DIN 42115 Part 2 for the durability of chemical substances and the sealing material meet FDA 21CFR 177.2600.

*Note: Resistive Touch is without EN 1672-2 Certification
FABS-9XXAP(H) is Compliant with EN 1672-2 Certification*



With the perfect chamfered edge, the water or detergent directly flows down the front panel.



APLEX Food Safety Grade HMI FABS Series



High Productivity

FABS 9A series offers excellent computing ability and is powered by Intel 6th Core i3/i5 processor. Also, the great graphic experience helps display complex visual information.



Internet Connectivity

- Optional GPS Module
- Optional Wi-Fi/BT and 4G/LTE Module

TB-528 Expansion I/O Boards

TB-528 Series I/O boards provide various I/O selections. It supports to different industrial applications.

Model	TB-528U4	TB-528U4ME1	TB-528C1U2	TB-528C1U2P1	TB-528C2	TB-528C2ME1	TB-528C2I
FABS-8XX	•	•	•	•	•	•	•
FABS-9XXA	•	•	•	•	•	•	•

Model	TB-528CAN2	TB-528E1U2	TB-528NE1U2POE	TB-528E1U2POE	TB-528E1U2UPOE
FABS-8XX	•	•	FABS-810: TB-528NE1U2POE, TB-528E1U2POE FABS-812: TB-528NE1U2POE, TB-528E1U2POE, TB-528E1U2UPOE		
FABS-9XXA	•	•	FABS-815: TB-528E1U2POE, TB-528E1U2UPOE FABS-815-821/912A/915A/916A: TB-528E1U2UPOE		

* System is only allowed to build in either I/O board TB-528 series or backup battery

* The above listed product does not contain: FABS-807P/R(H)



Compact Size Intel 6th Gen. Core HMI

- Intel 6th Gen. Core i3/i5 Processors
- 1 x DDR4 SO-DIMM Socket
- SUS304 Stainless steel (Option SUS316)
- Front bezel IP66/IP69K
- 9~36V DC wide-ranging power input



Comply with EN-1672-2 Food Safety Grade Standard



Wide Range DC 9~36V Power Input



Flat Front Panel Design Front Bezel IP66/IP69K

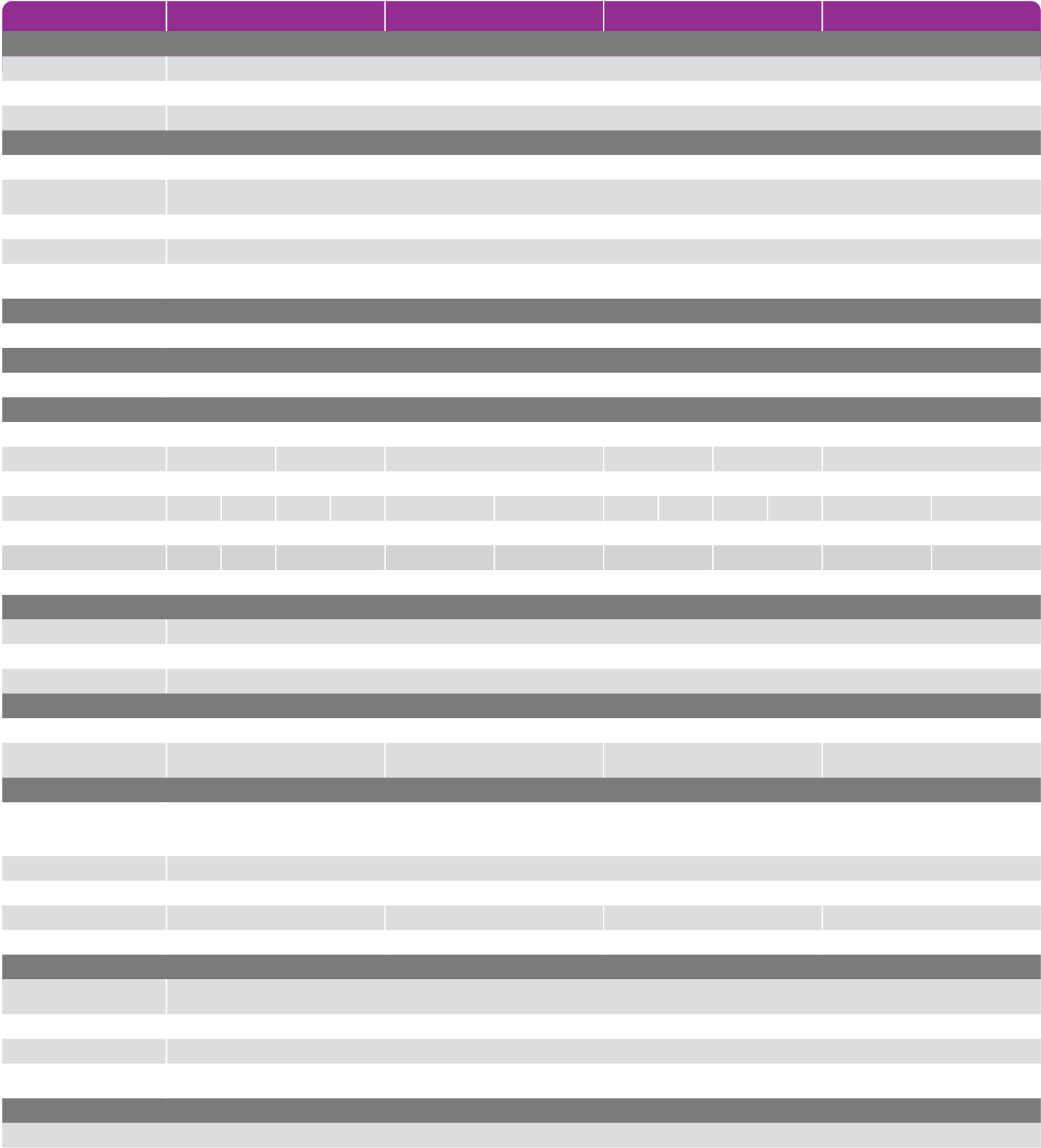


SUS304 Stainless Steel (Option SUS316)



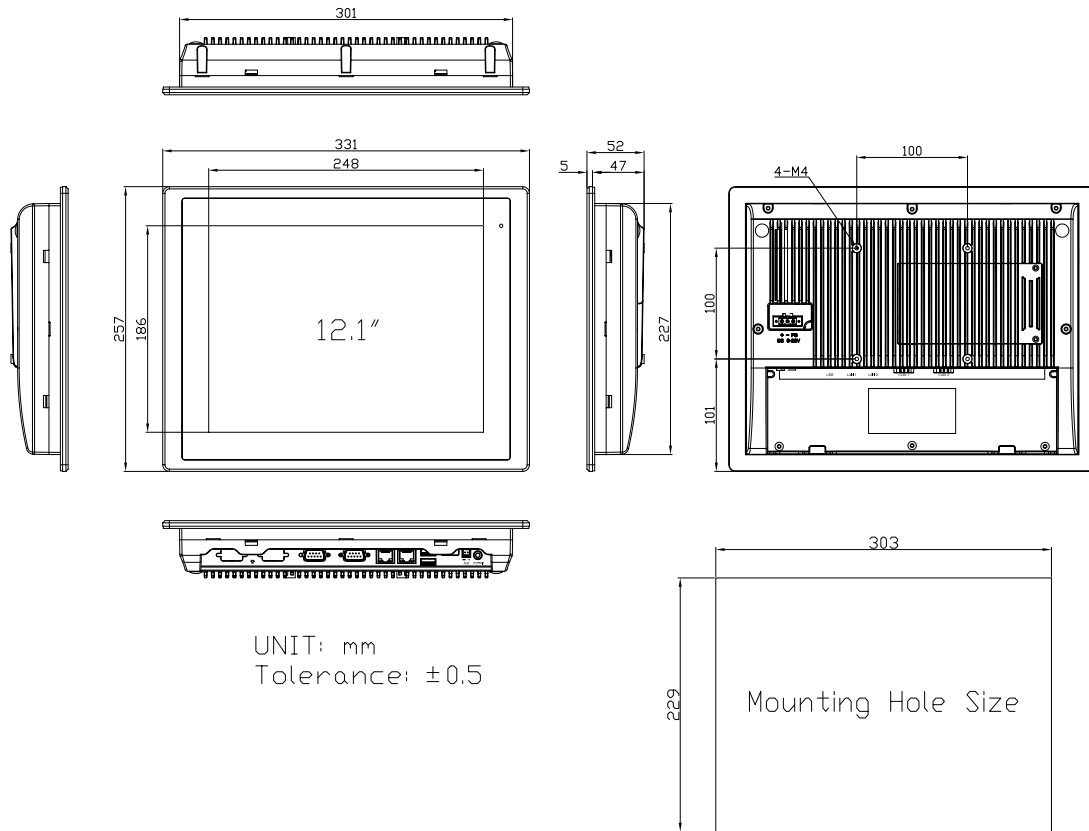
Easily Accessible Storage Design





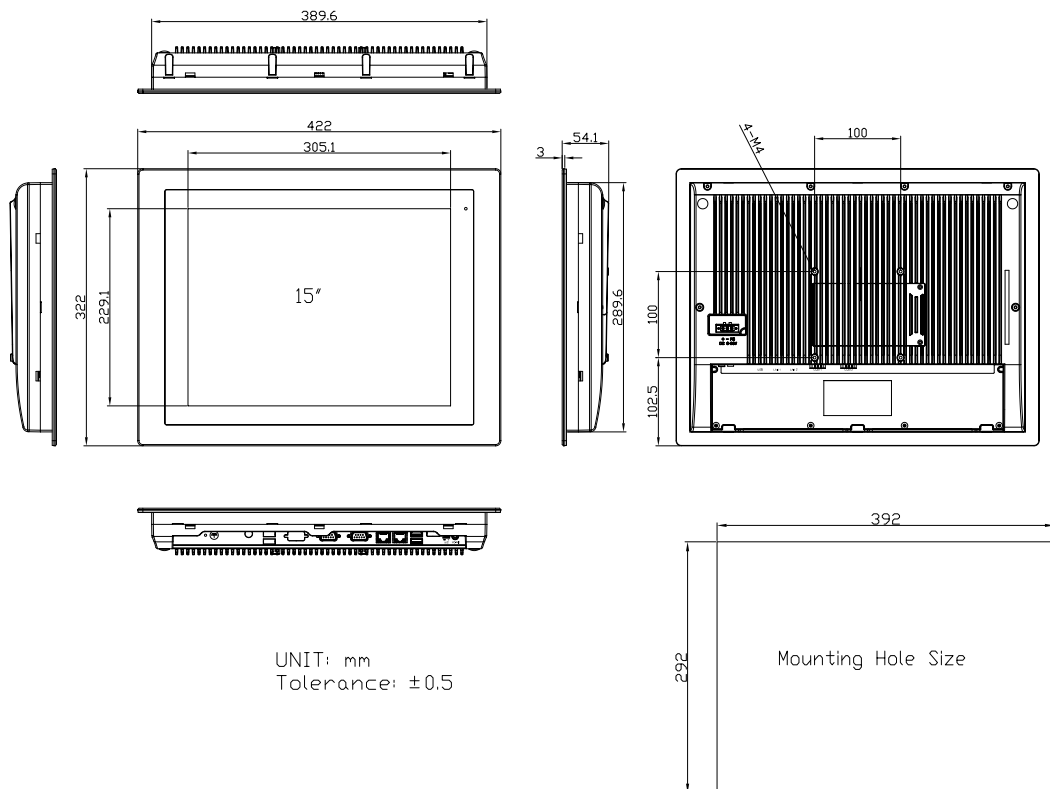


FABS-912AR/P/G(H)



unit:mm

FABS-915AR/P/G(H)



unit:mm

FABS-916AR/P/G(H)

unit:mm

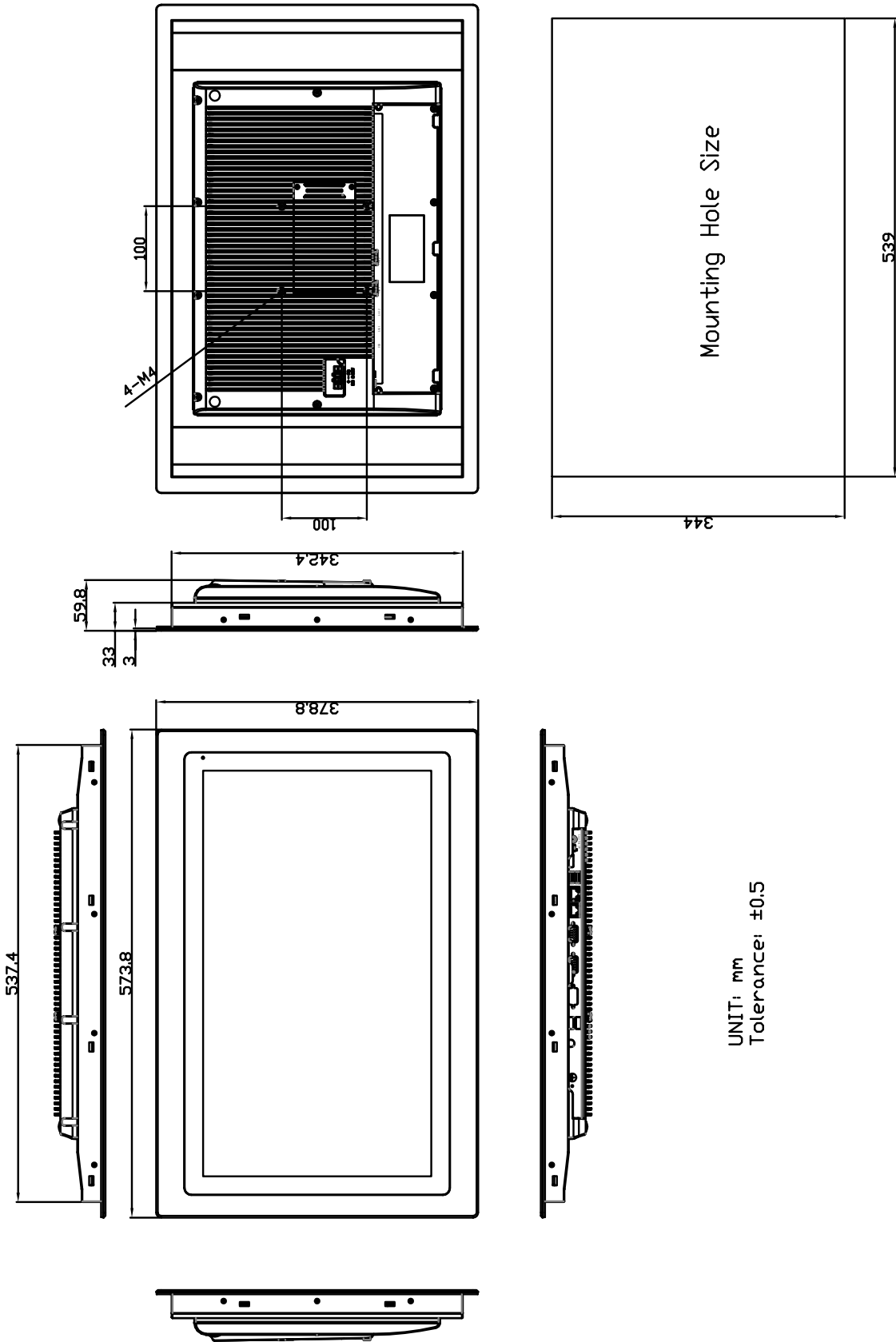
FABS-917AR/P/G(H)

unit:mm

FABS-918AR/P/G(H)

unit:mm

FABS-921AR/P/G(H)

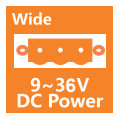






Compact Size Intel Celeron N2930 HMI

- Intel Celeron N2930 1.83GHz Processor
- Onboard 4GB DDR3L SDRAM
- PCT and glass for option
- Front bezel IP66/IP69K
- 9~36V DC wide-ranging power input



EN-1672-2 Food Safety Grade Standard



Wide Range DC 9~36V Power Input



Flat Front Panel Design Front Bezel IP66/IP69K

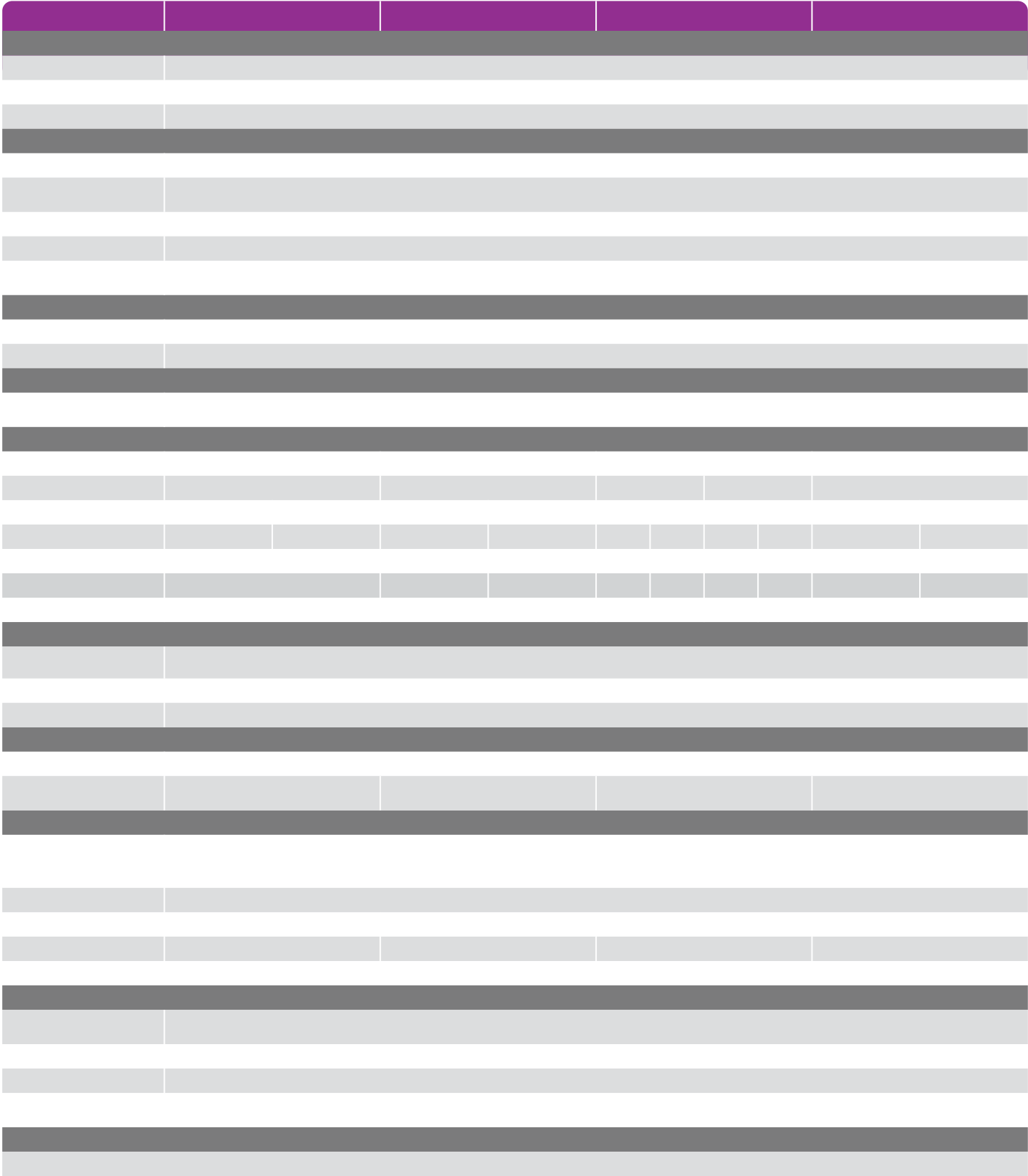


SUS304 Stainless steel (Option SUS316)

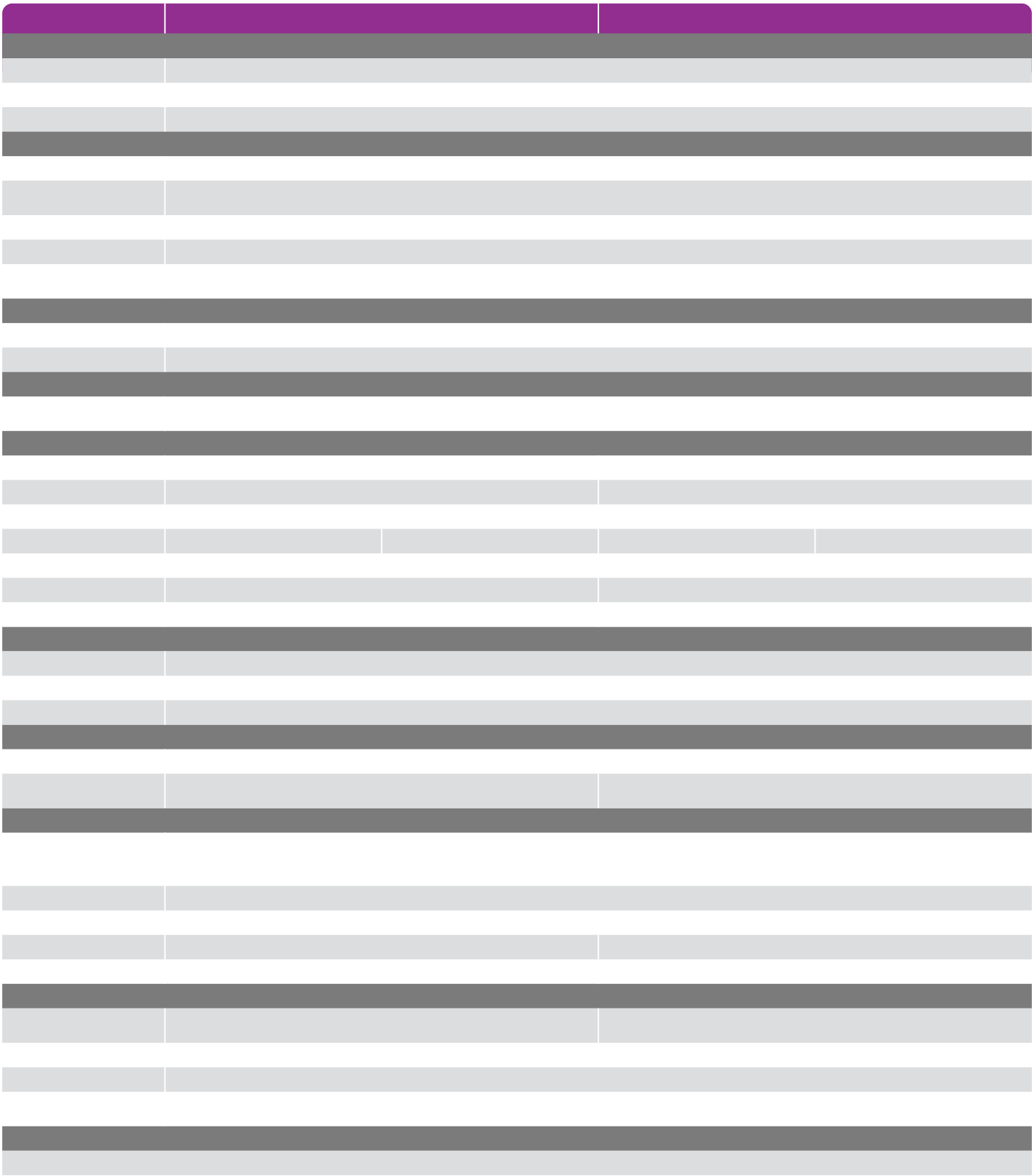


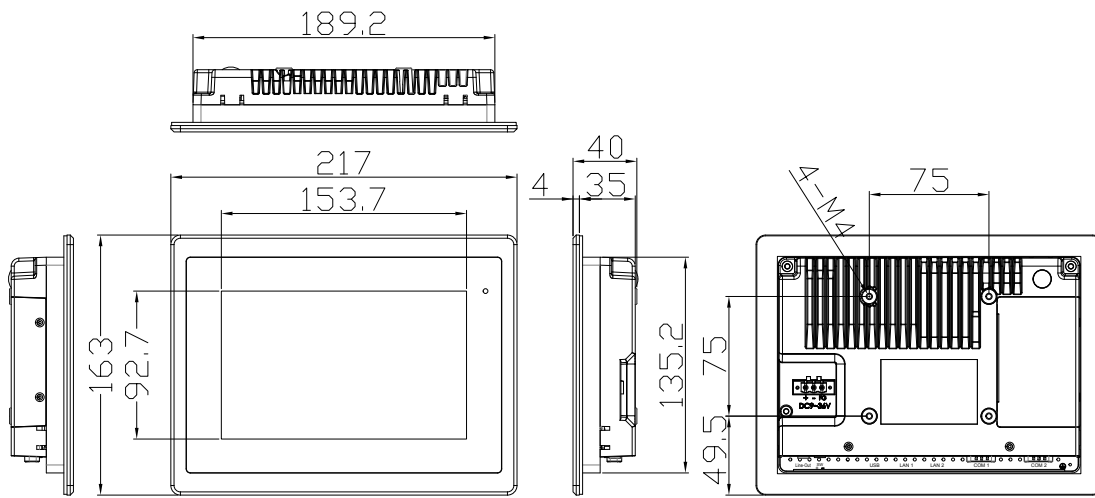
Easily Accessible Storage Design



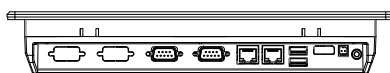
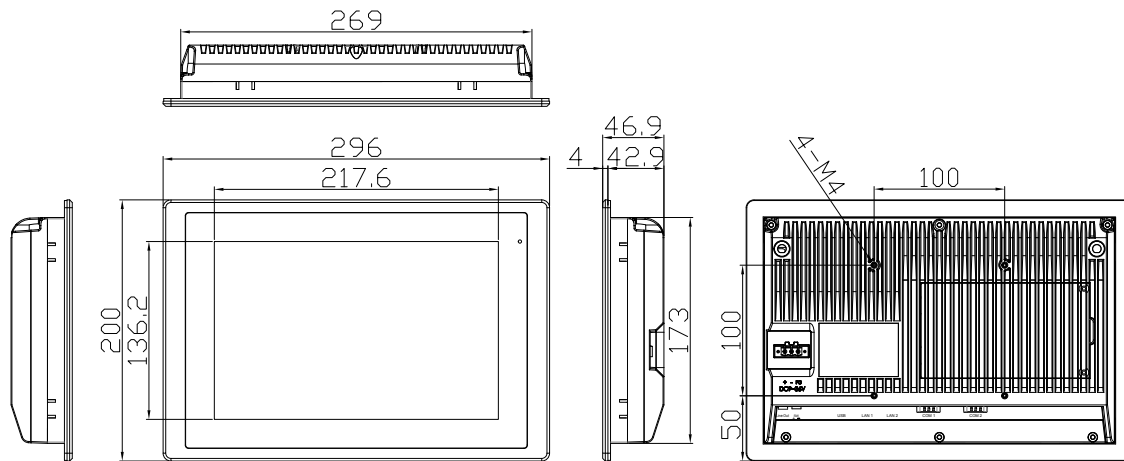
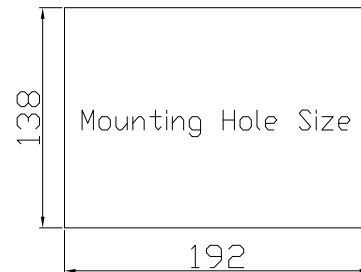




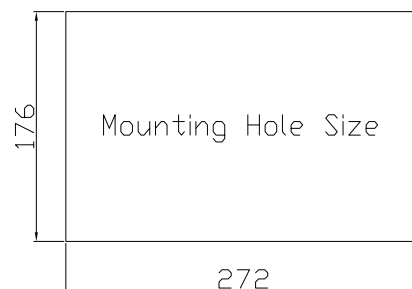




UNIT: mm
Tolerance: ±0.5



UNIT: mm
Tolerance: ±0.5



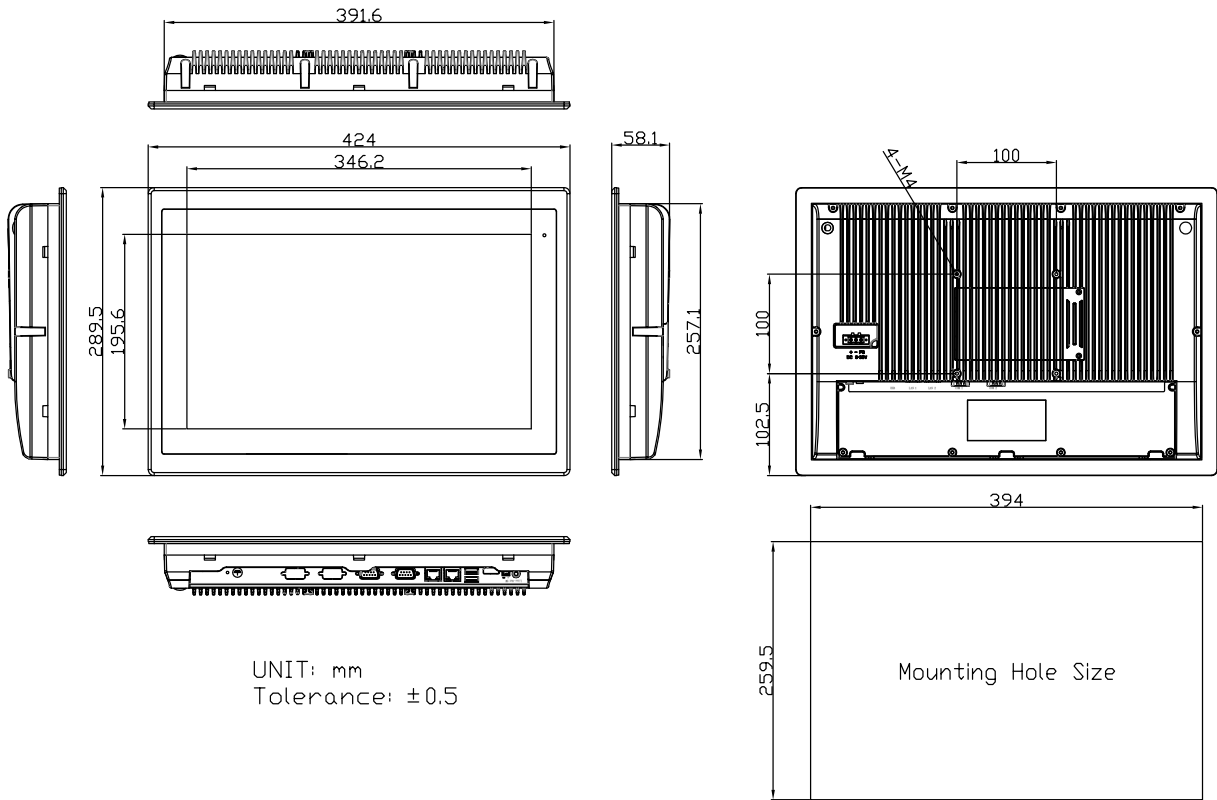
FABS-812P/G(H)

unit:mm

FABS-815P/G(H)

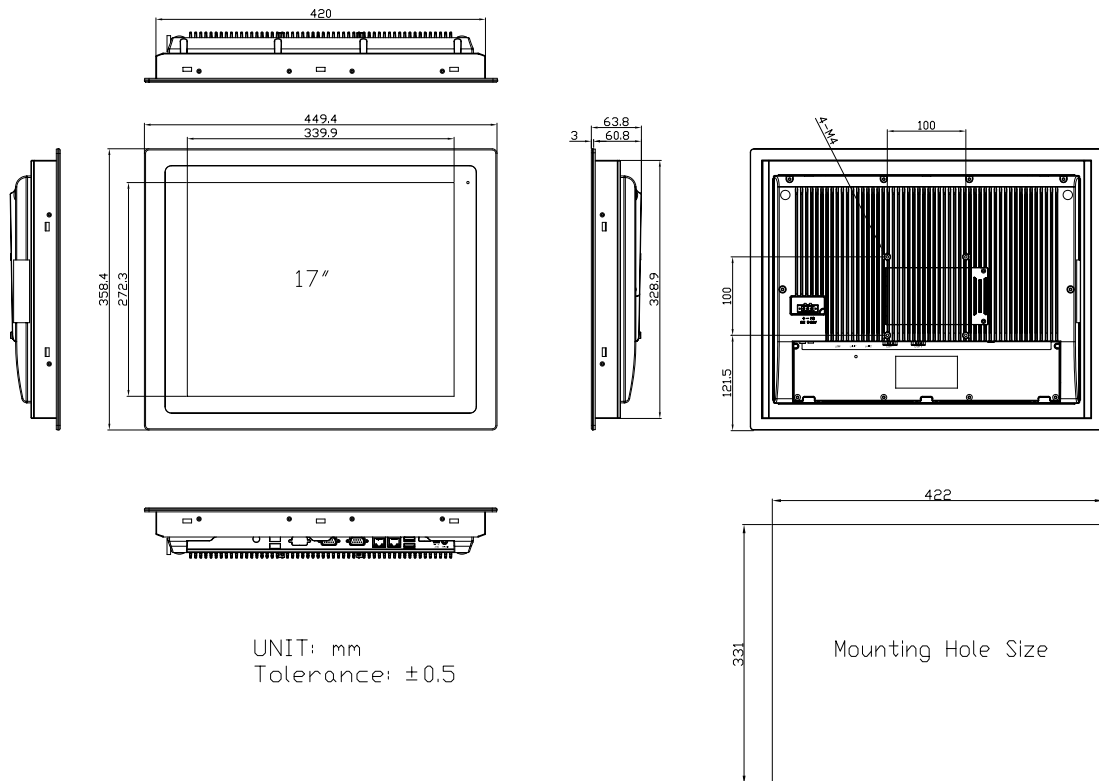
unit:mm

FABS-816P/G(H)



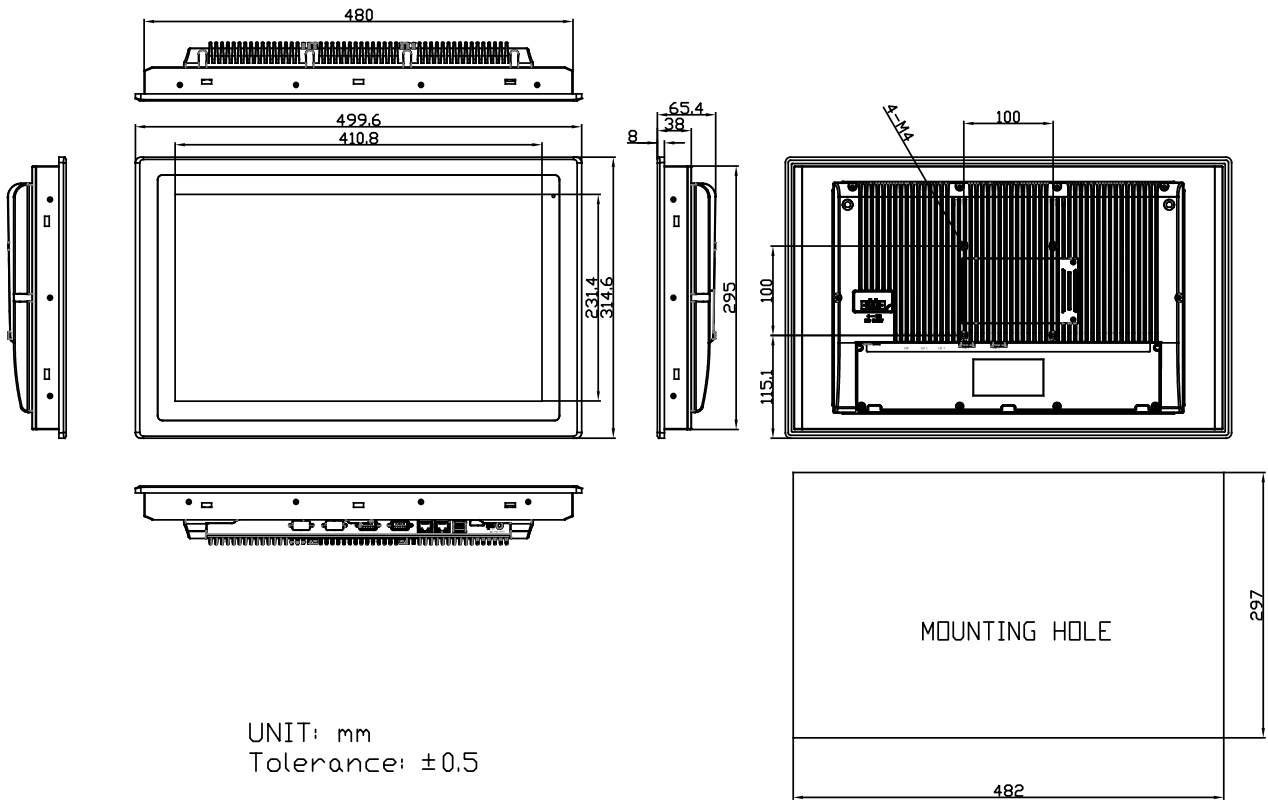
unit:mm

FABS-817P/G(H)



unit:mm

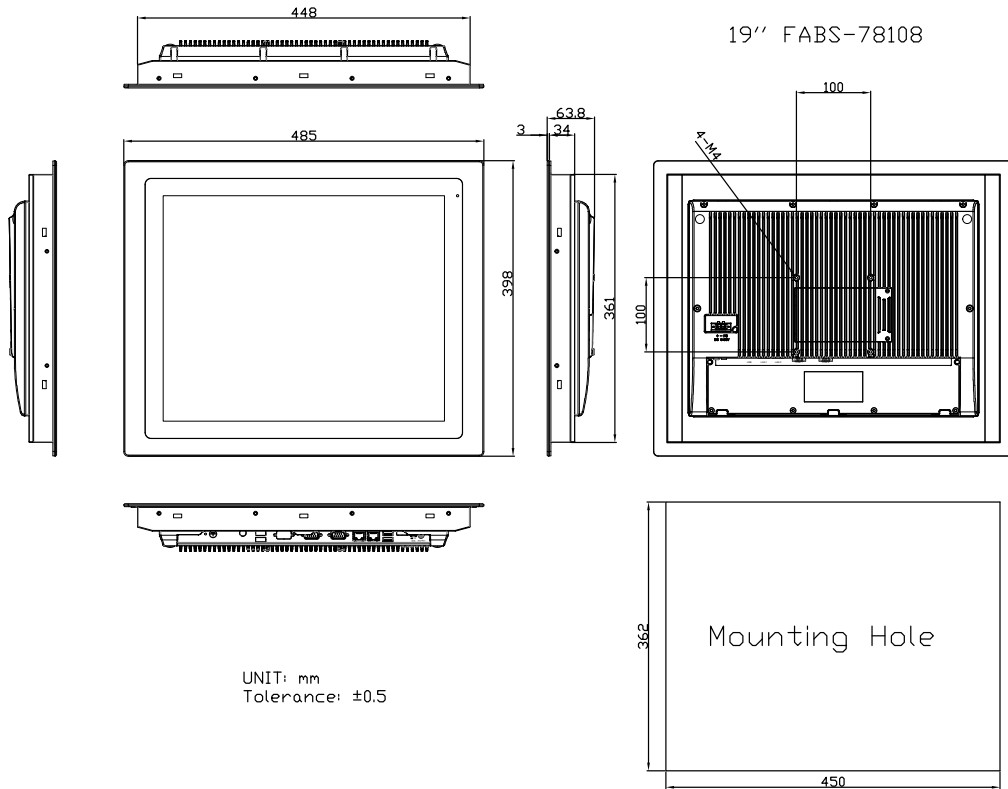
FABS-818P/G(H)



UNIT: mm
Tolerance: ±0.5

unit:mm

FABS-819P/G(H)



UNIT: mm
Tolerance: ±0.5

unit:mm



Box PC

APLEX Box PC, combining with IIoT, optimizes the real-time computing, perfectly stabilizing the connectivity of H2M/HMI/SCADA system. These product lines bring superior performance, expansibility and multi-tasking capability.

APLEX's Box PCs are primarily designed for industrial or special applications usage. To deal with different applications, the Box PCs can be mounted via wall mount and din rail mount. Our Box PCs are capable of handling a wide range of DC voltage input and wide operating temperature; Fanless design with shock resistant and excellent cooling system. To meet your needs in different applications and services, PCI/PCle expansion slots can be selected to better monitor your application.





TITAN

Industrial Rugged Box PC

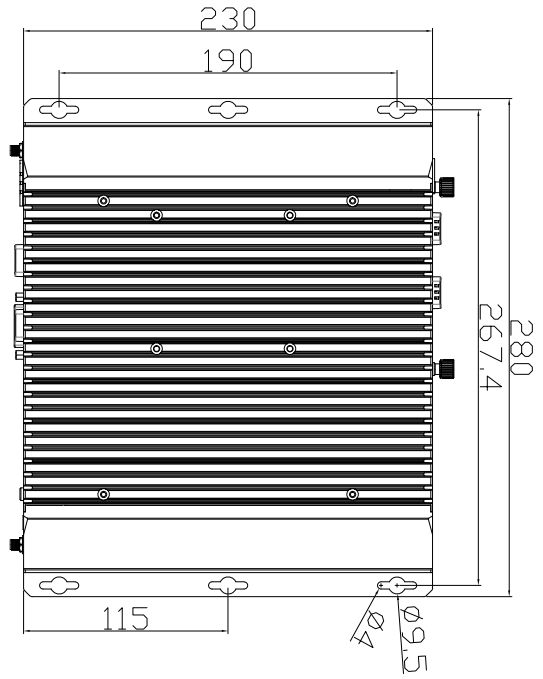
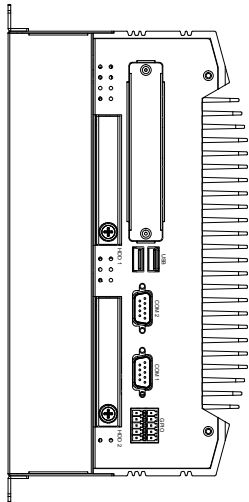
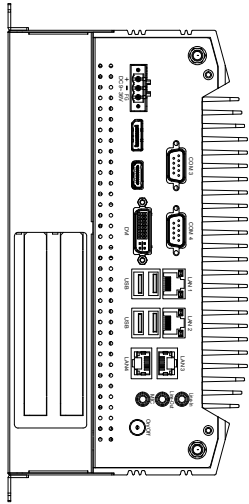
High Bandwidth PCI Express Link for Speed and Expandability



Automation Products Leading **EX**pert







UNIT: mm
Tolerance: ± 0.5





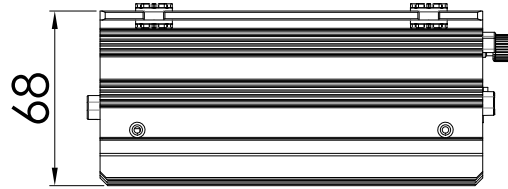
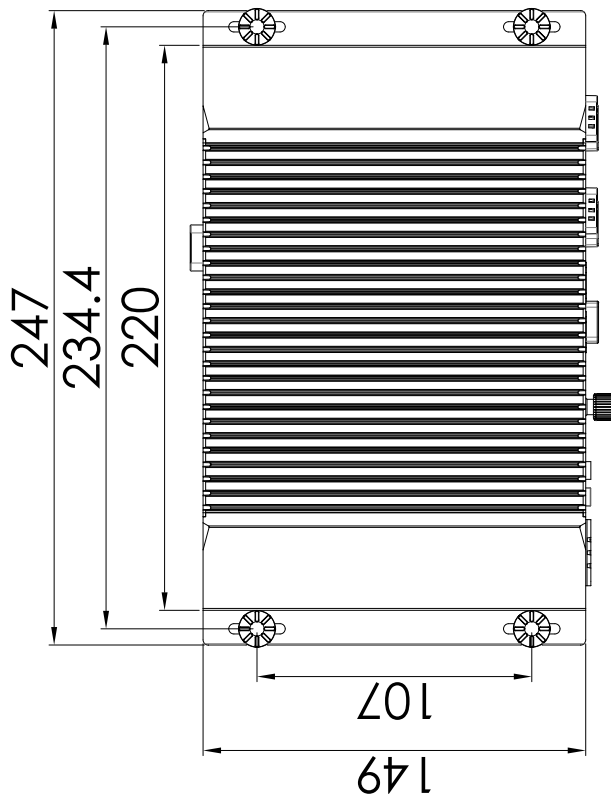




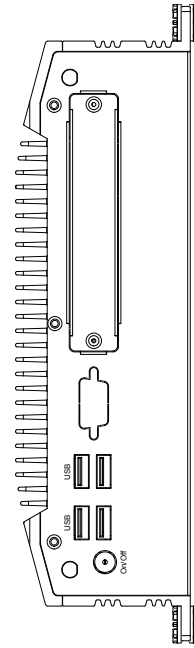
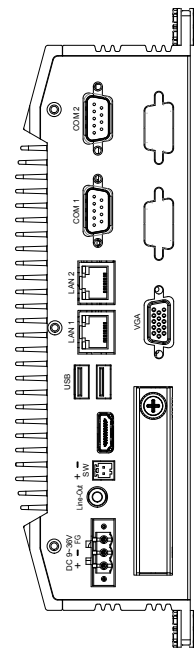


Specifications



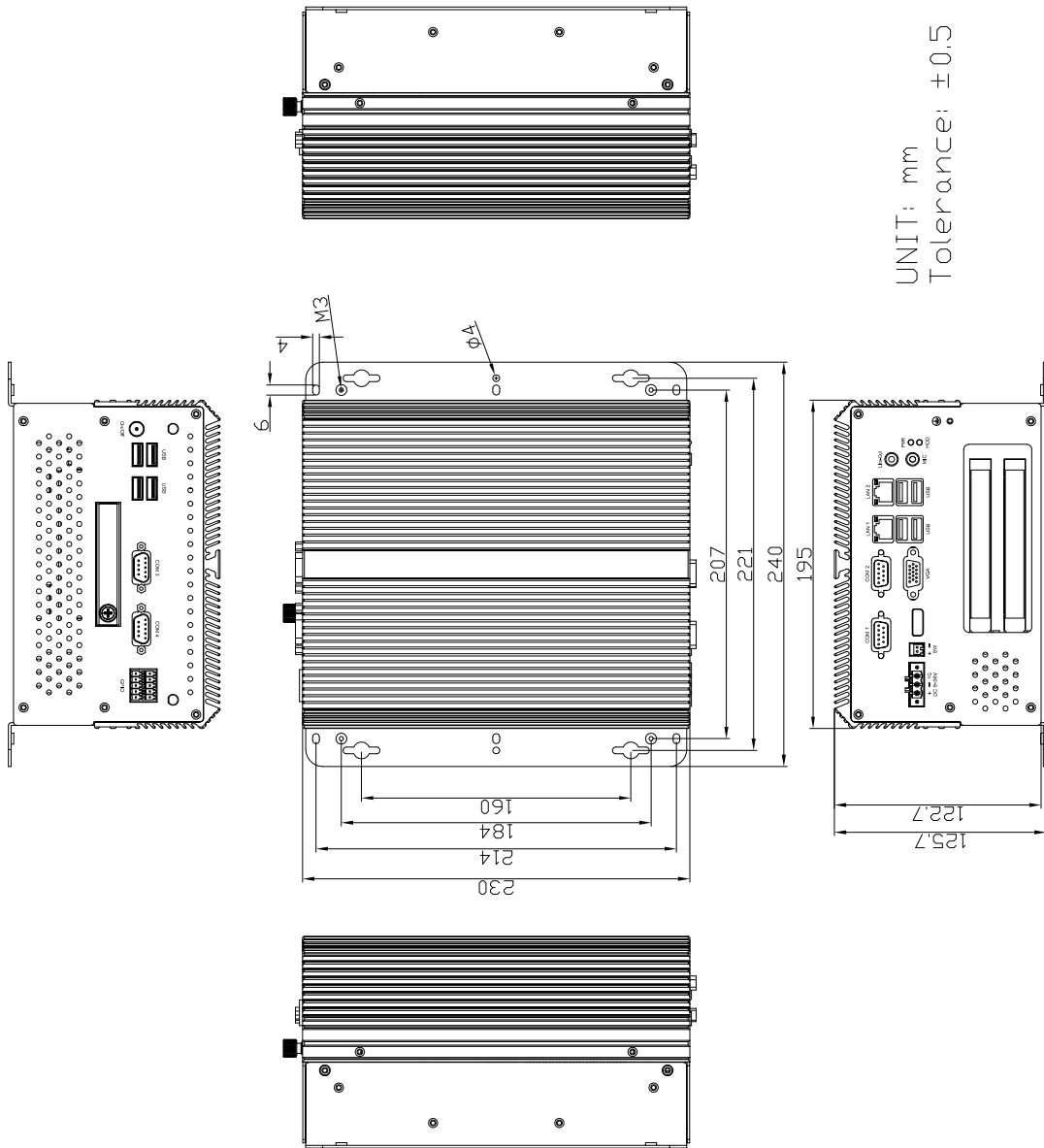


UNIT: mm
Tolerance: ±0.5







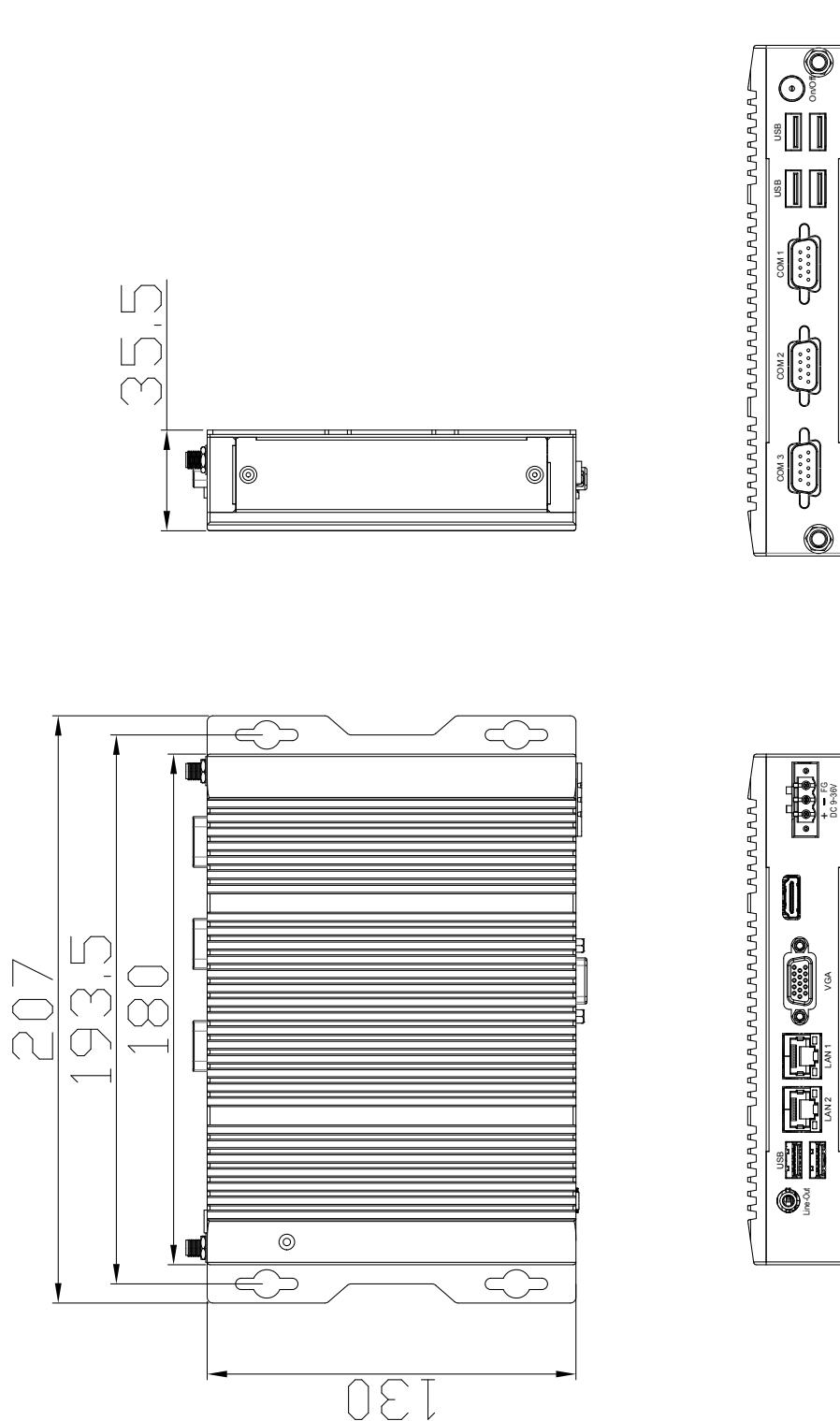








ACS-2310



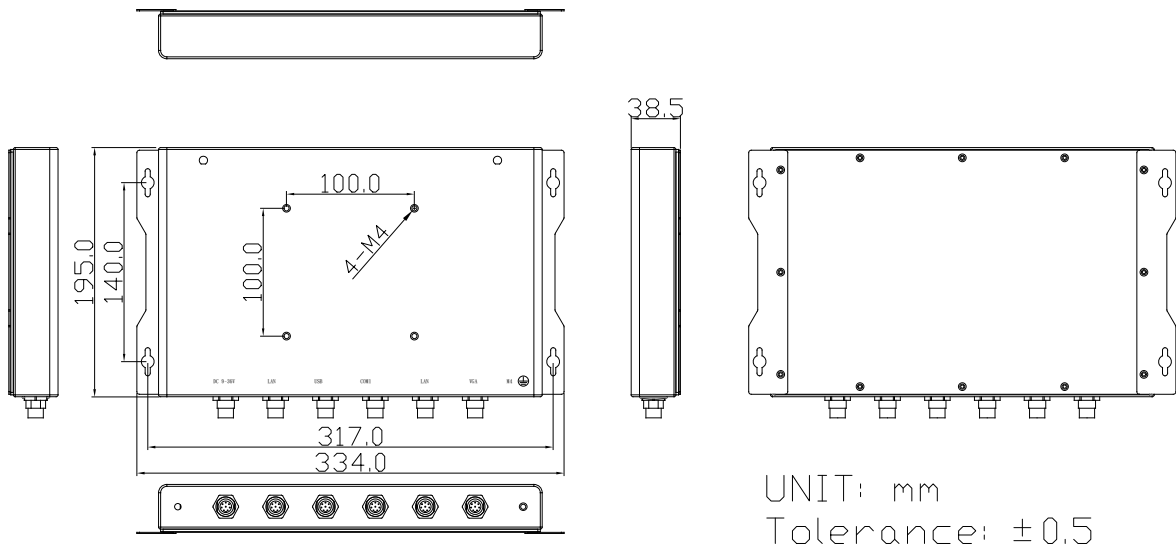
unit:mm

Ordering information

Model NO.	Description
ACS-2310(Barebone)	Fanless Box PC, Intel® Celeron® N2930 CPU, 1 x SO-DIMM DDR3L 1333MHz, up to 8GB, 2 x mini-PCIe slot full size (one shared with mSATA), DC 9~36V power input with Adapter, Steel Chassis with Aluminum Heatsink



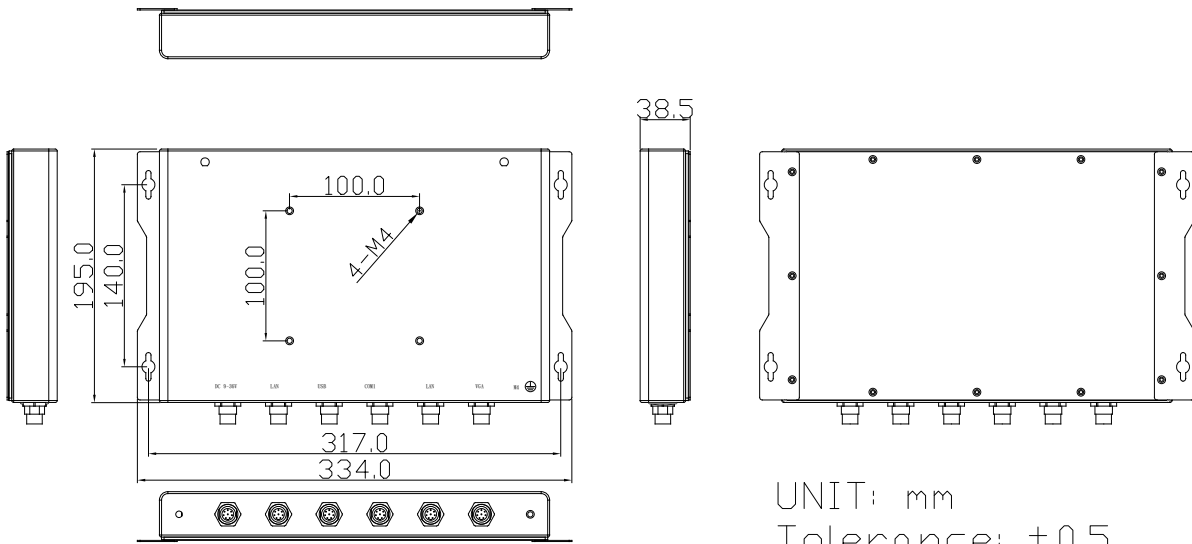
AEx-2410



UNIT: mm
Tolerance: ±0.5

unit:mm

AEX-2411



UNIT: mm
Tolerance: ±0.5

unit:mm

Ordering information

Model NO.	Description
AEX-2410	Fanless Box PC, Intel N2930 CPU, 4GB DDR3 RAM, VGA output, DC 9~36V power input, SS316
AEX-2411	Fanless Box PC, Intel 6 th Core i CPU, 1 x SO-DIMM DDR4 slots, VGA output, DC 9~36V power input, SS316



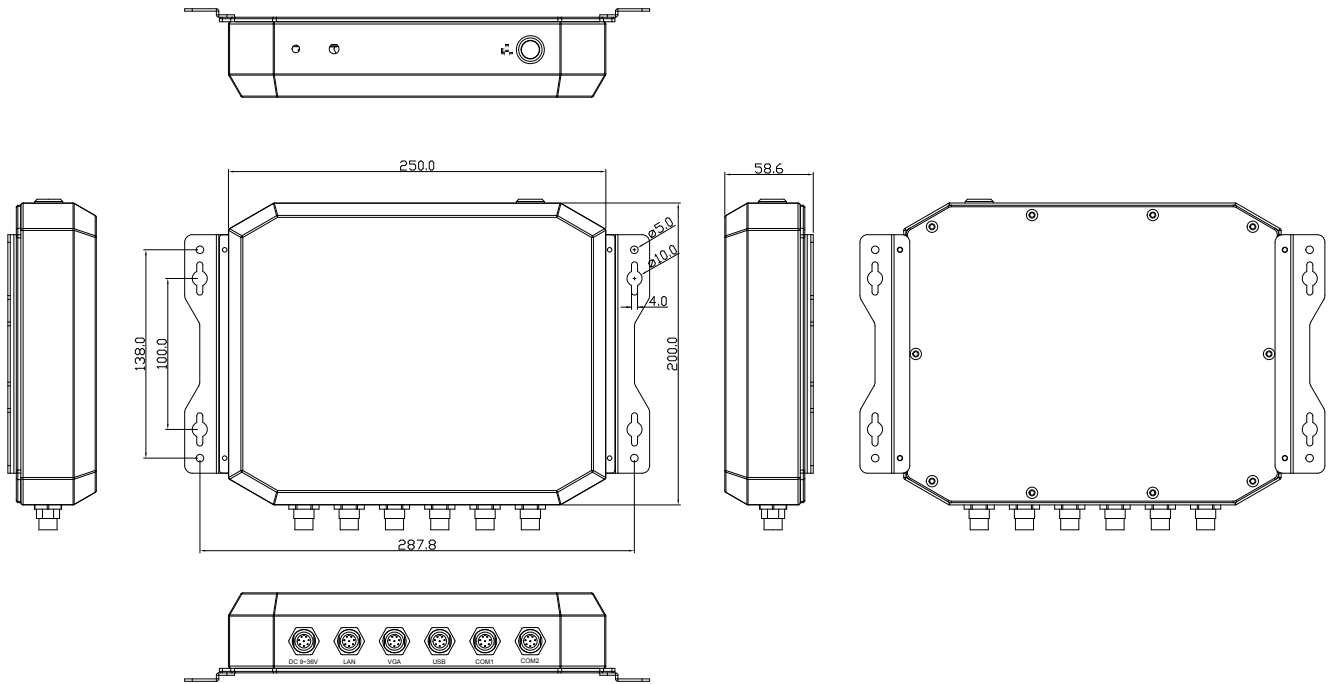


Specifications





ACS-2702A



unit:mm

Ordering information

Model NO.	Description
ACS-2702A-01	IP67 Waterproof fanless box pc, Intel Atom N2930 CPU, 4GB DDR3L RAM on board, 32GB MLC SSD, 9~36V DC power input with Adapter, stainless steel enclosure, WT1.









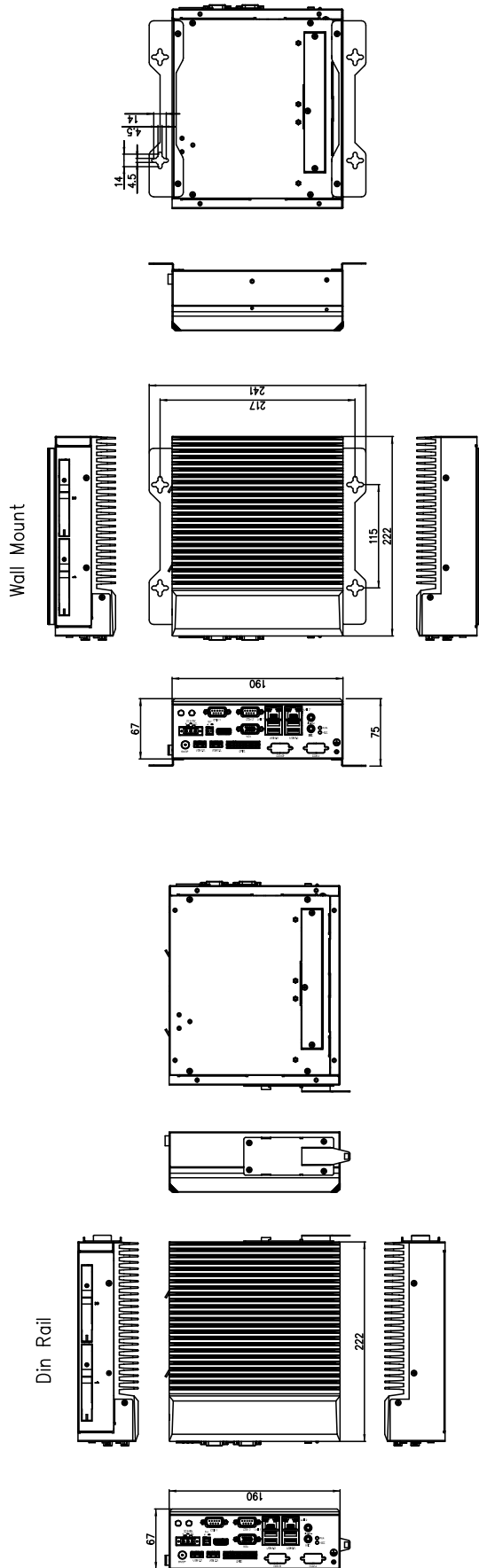






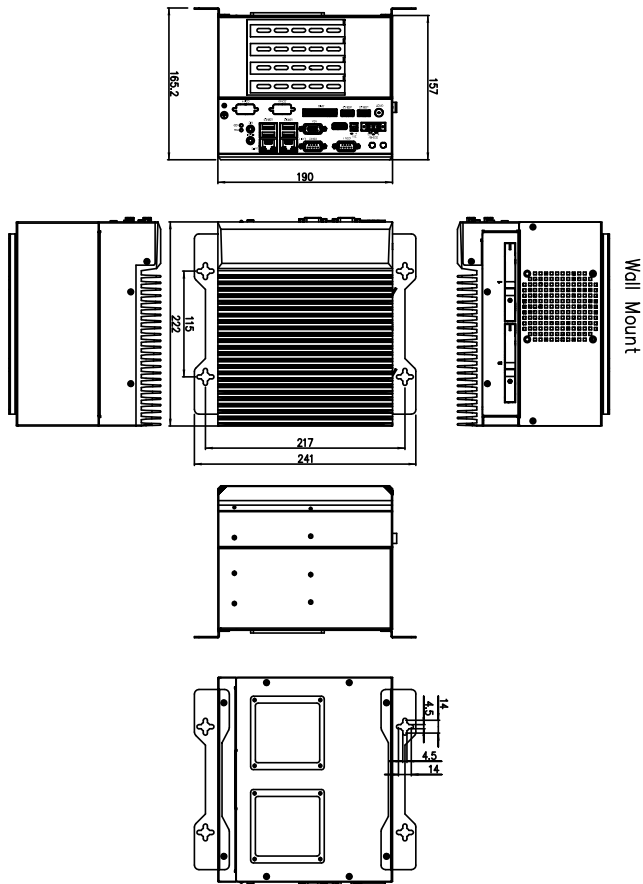
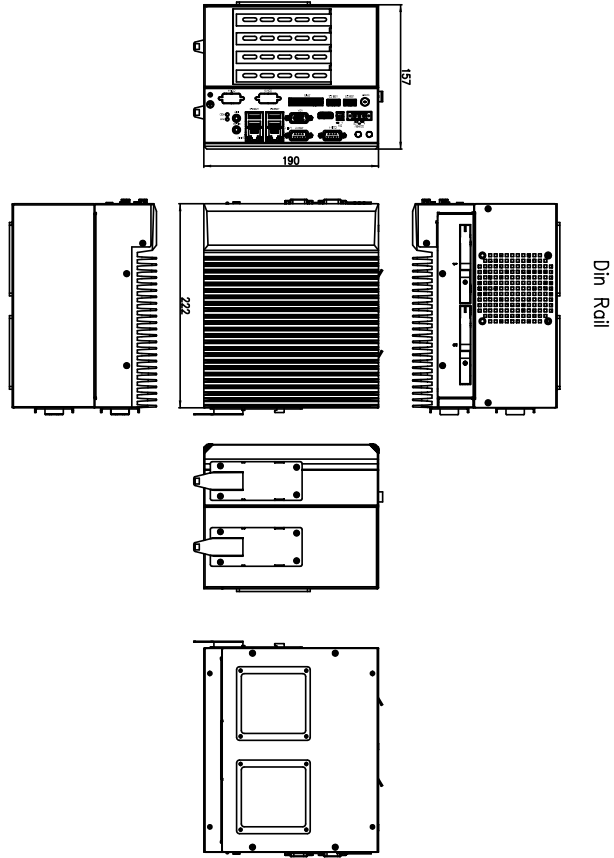








AVS-504

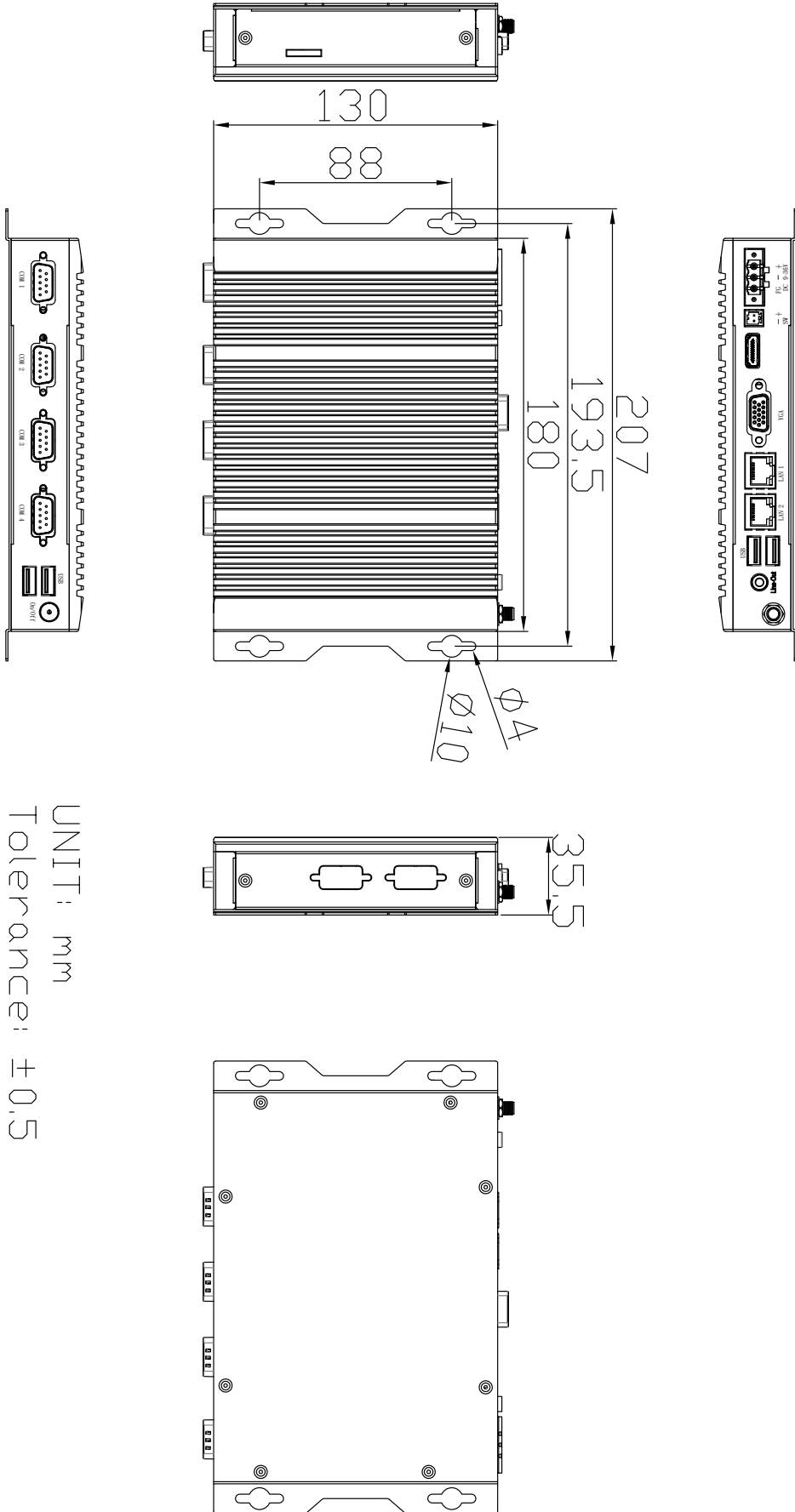


unit:mm





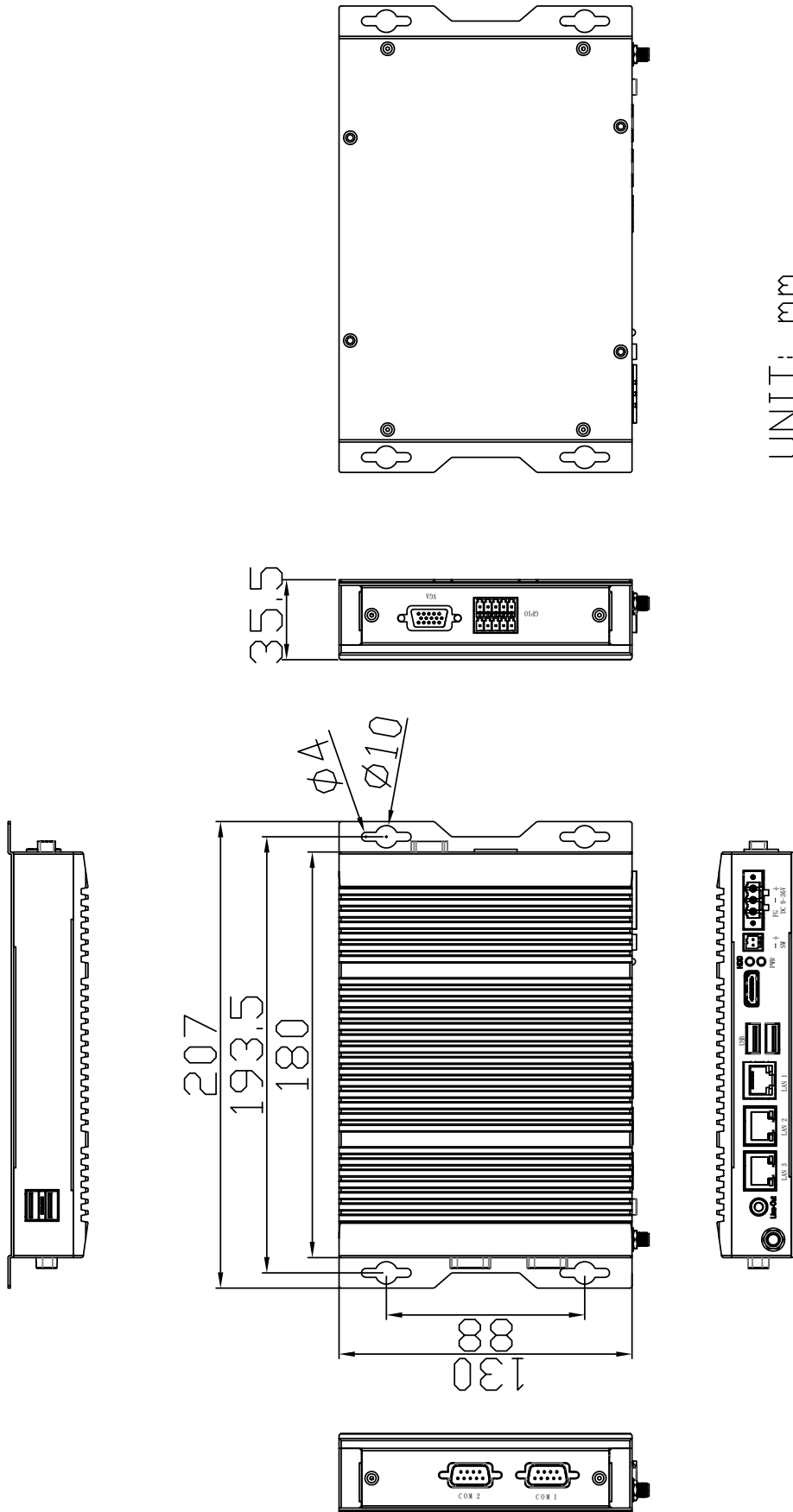
AVS-300



UNIT: mm
Tolerance: ± 0.5

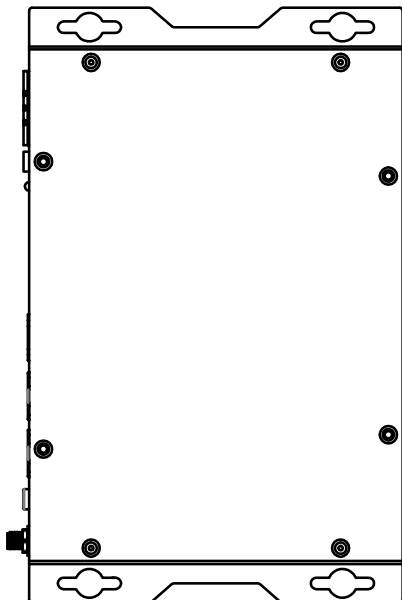
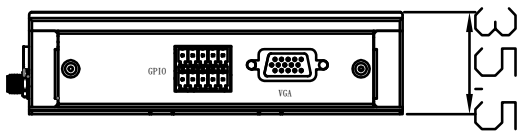
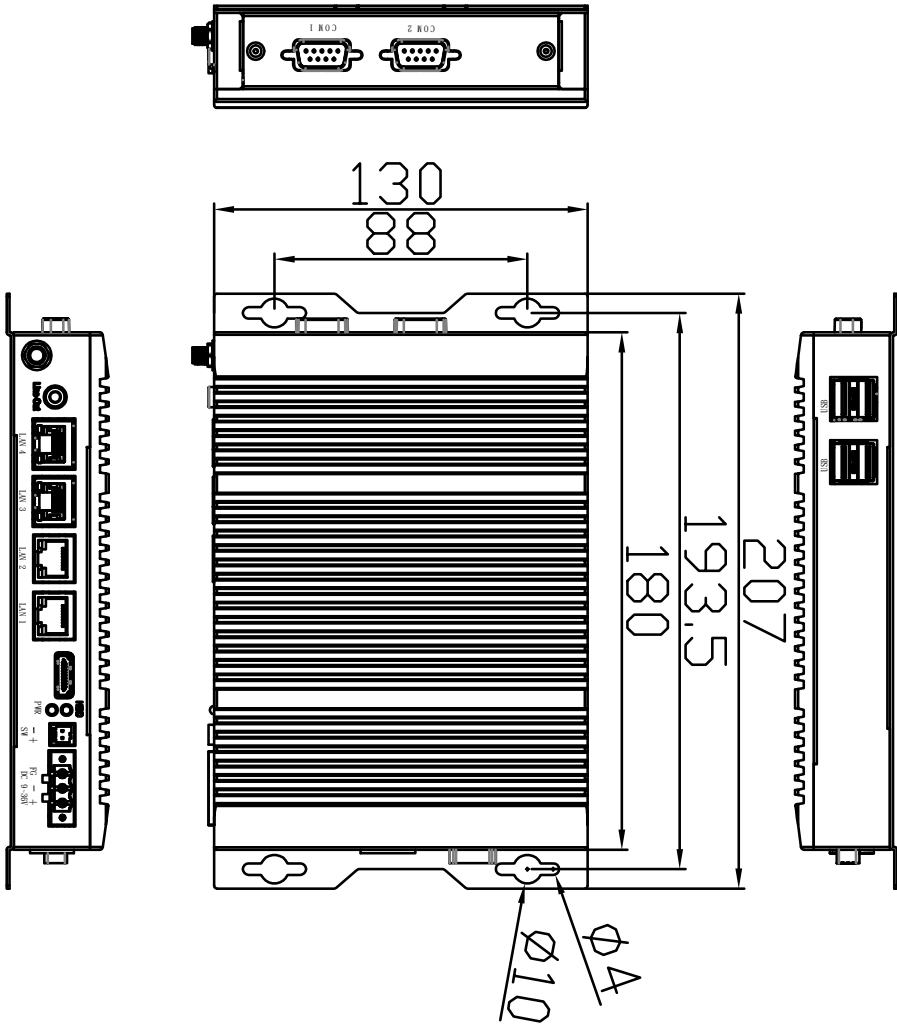
unit:mm





UNIT: mm
Tolerance: $\pm 0,5$



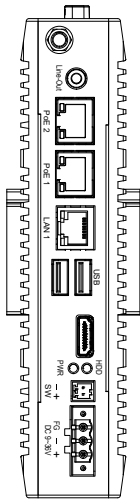


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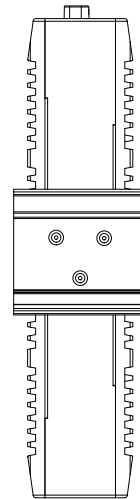
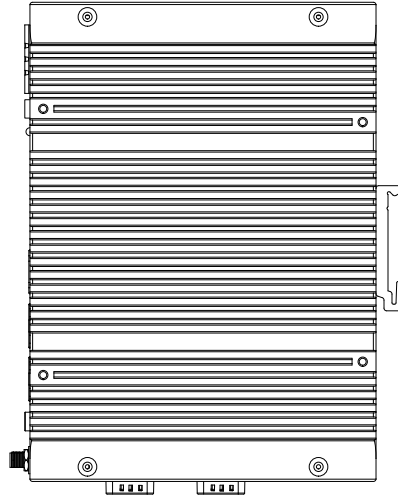
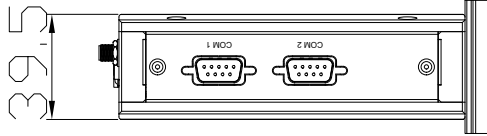
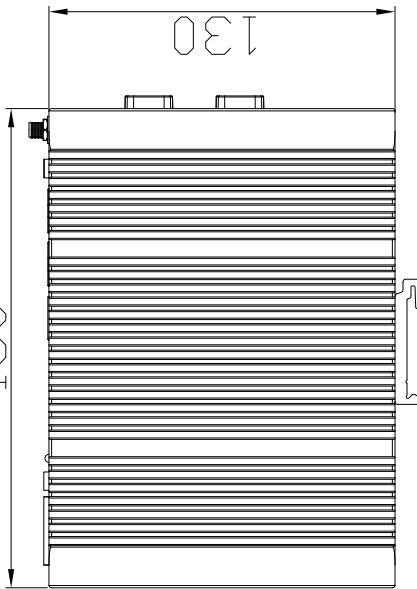
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AVS-310

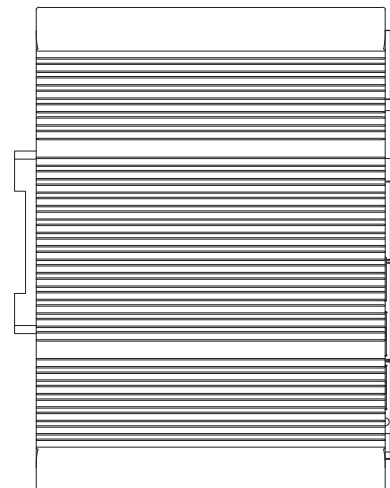
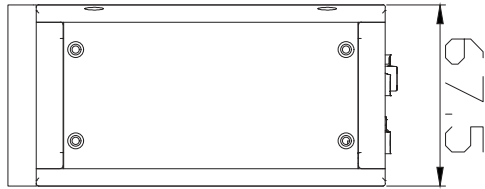
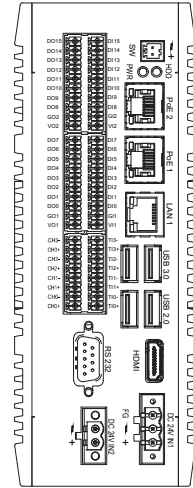
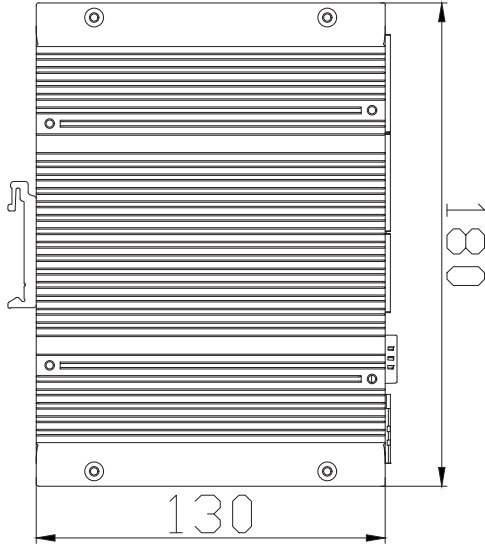
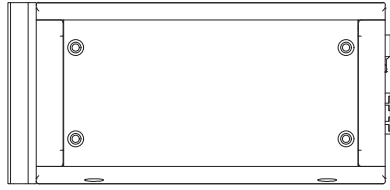
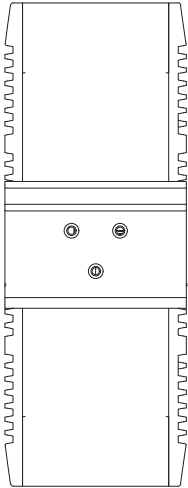


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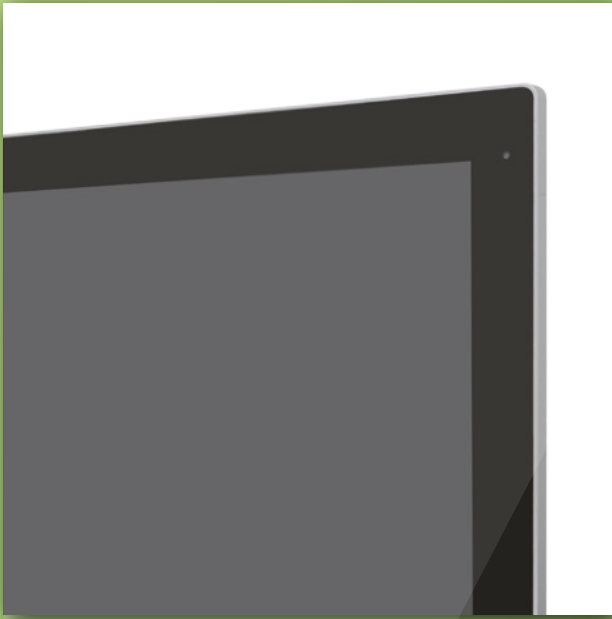


UNIT: mm
Tolerance: ±0.5





UNIT: mm
Tolerance: ±0.5



Display & Open Frame Display

There is no doubt that APLEX offers a complete display products line for industrial applications. To widely promote to different applications, the long-term product lifecycle of the display is what APLEX focuses on, so we provide rugged construction including open-frame structure, stainless steel, metal chassis, aluminum die-casting and plastic enclosure. Additionally, concerning the maintenance issue, IP rated assurance ensures that the system operates normally after cleaning.

In high levels of ambient light environment, APLEX has built a high-brightness series of monitors which utilize LED backlight technology. In addition, the customer can choose either the VGA-only product or DVI-equipped model. All display products can be customized based on demands to satisfy each customer.









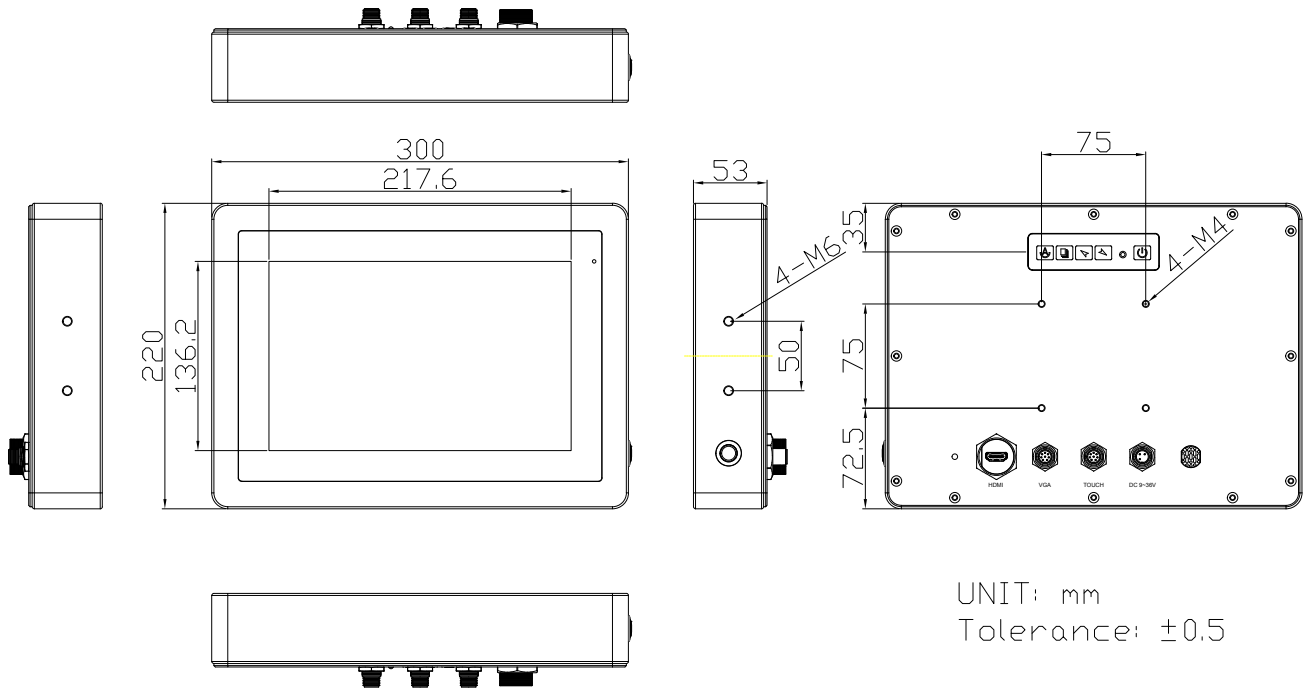




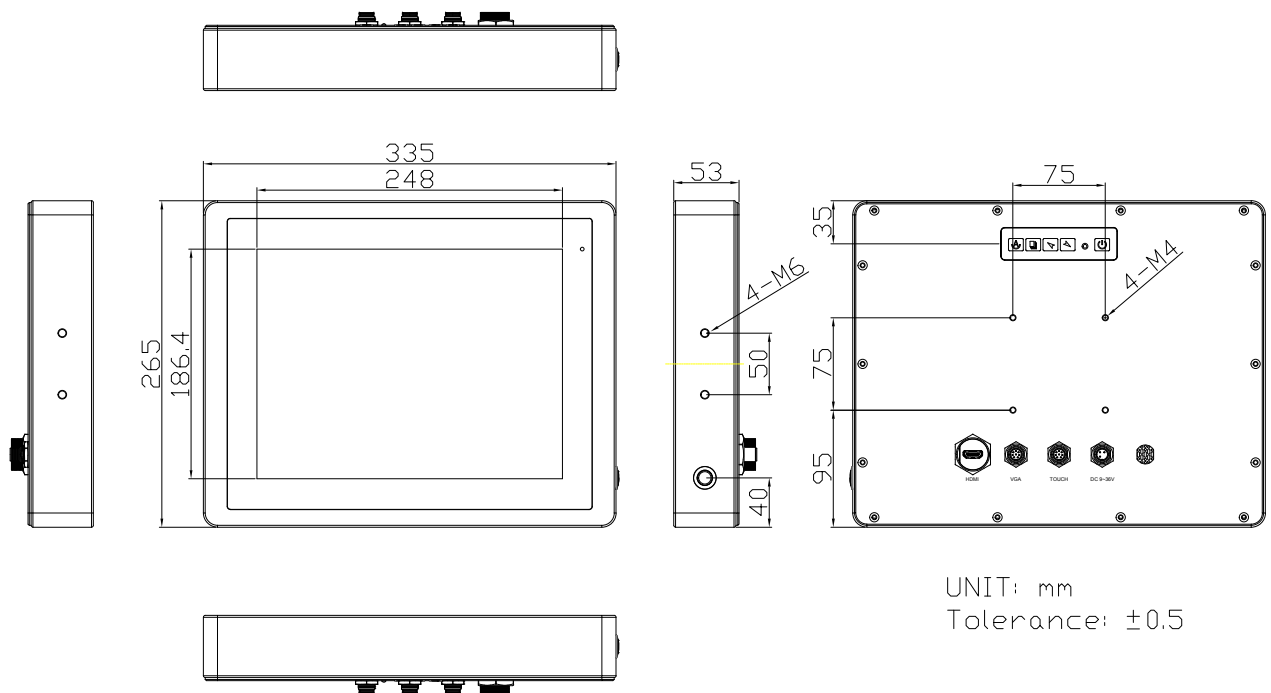




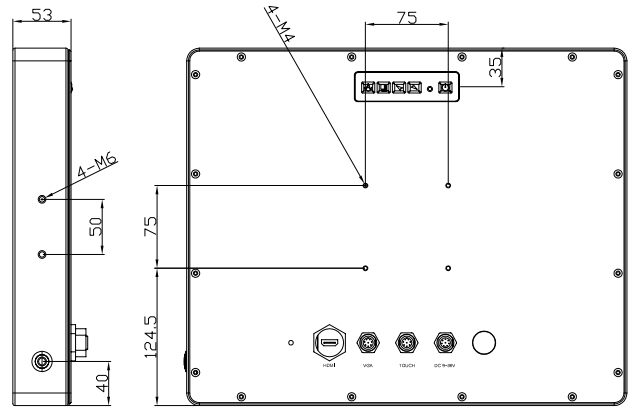
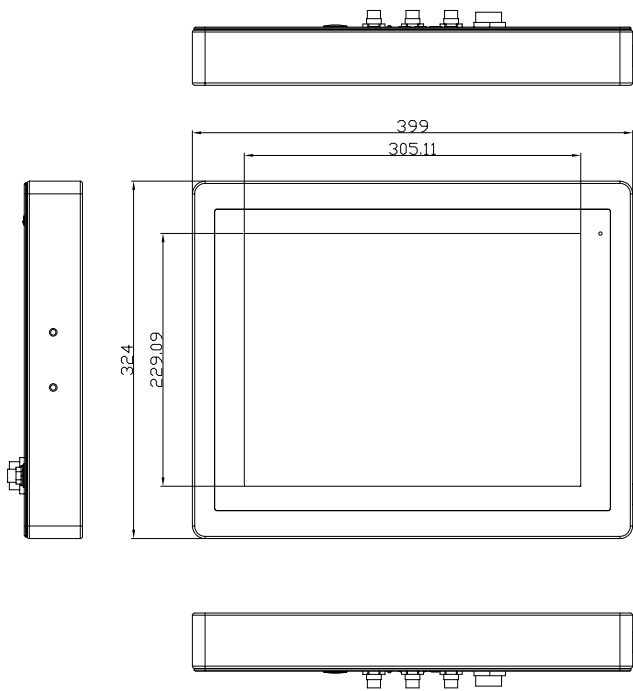




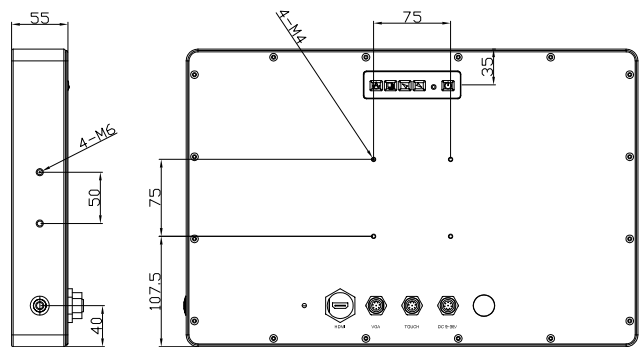
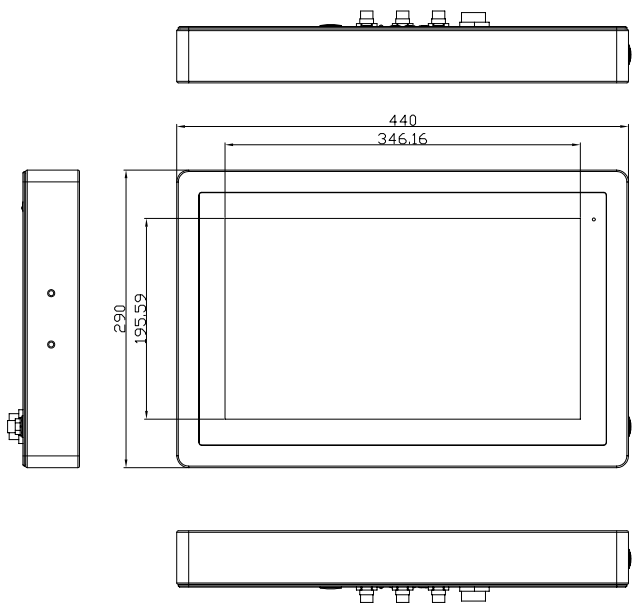
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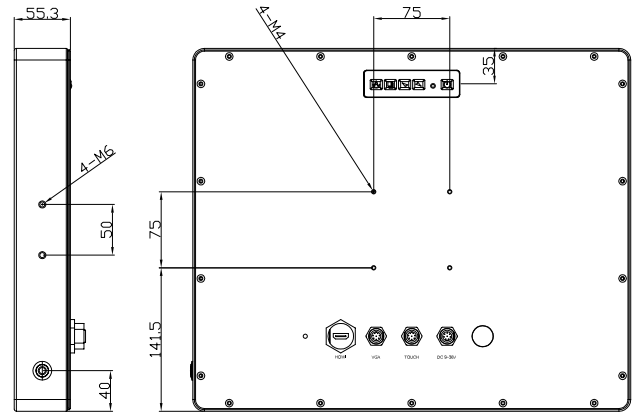
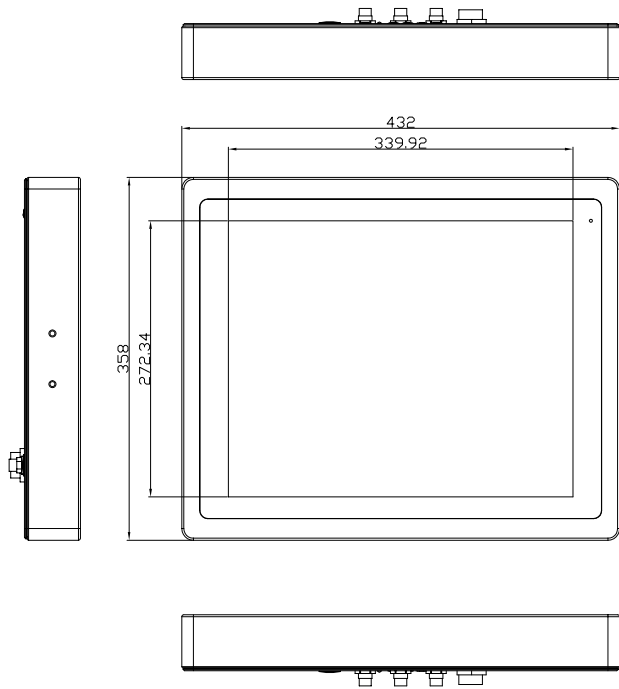
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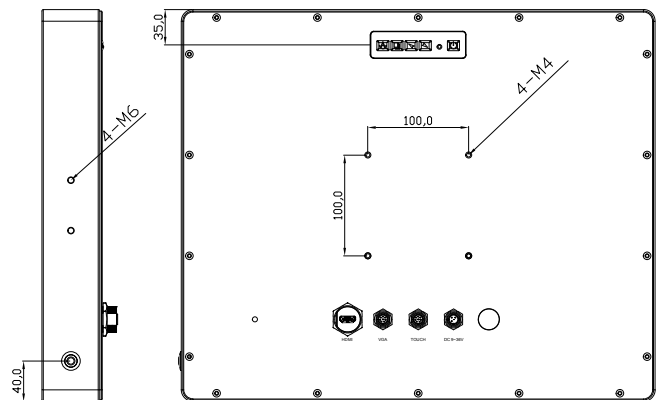
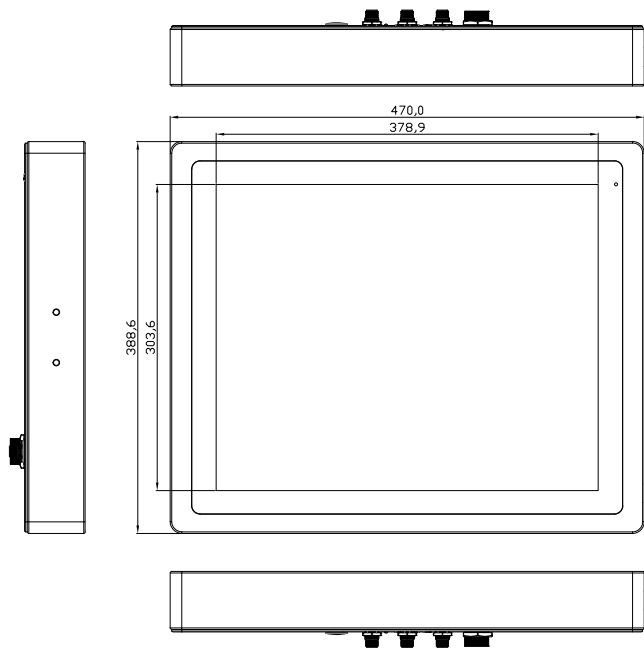
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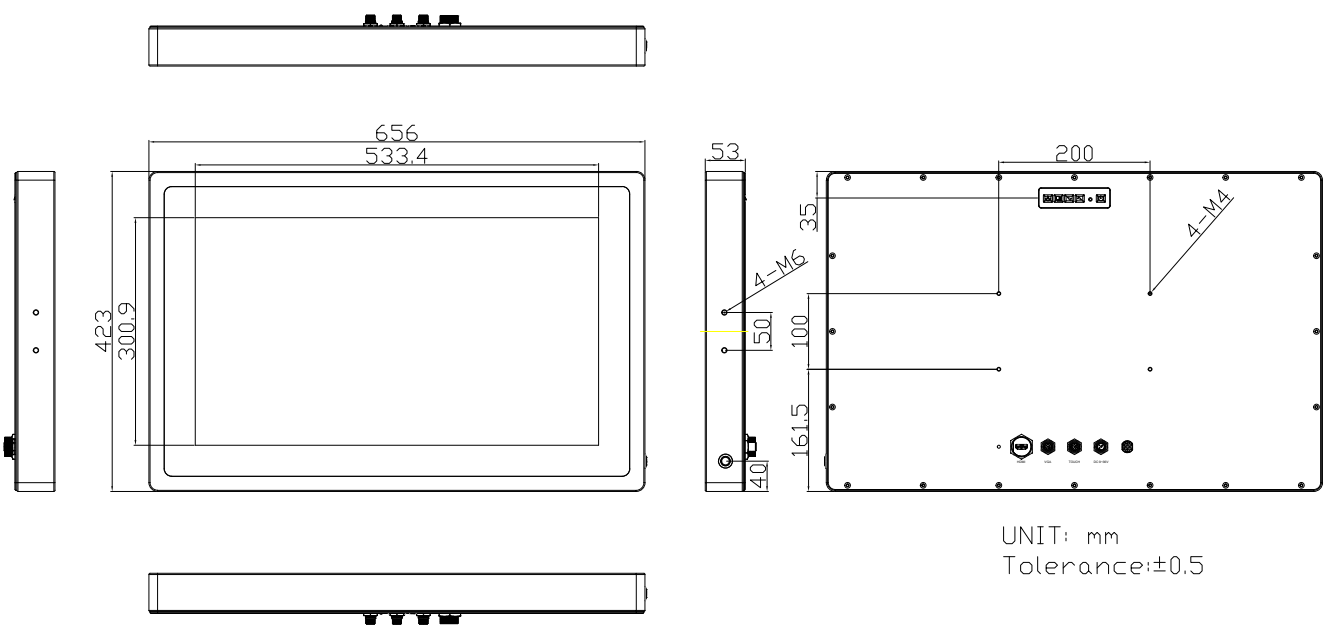
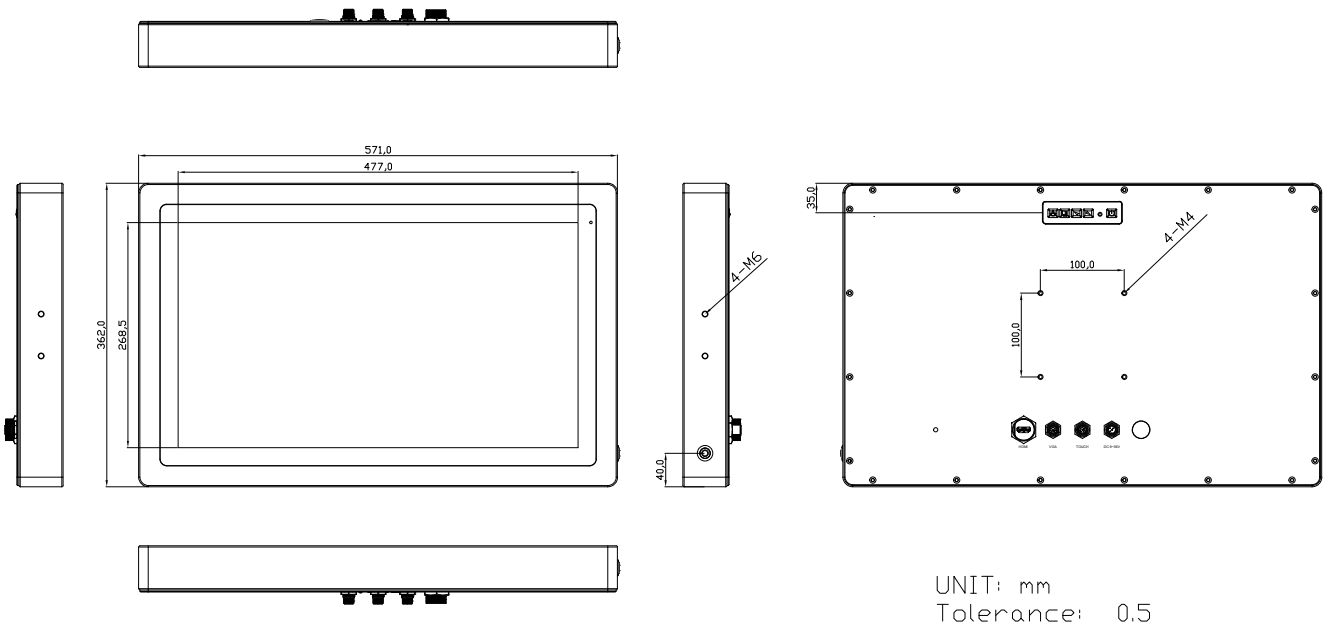
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Tolerance: ± 0.5



UNIT: mm
Tolerance: ± 0.5



UNIT: mm
Tolerance: 0.5

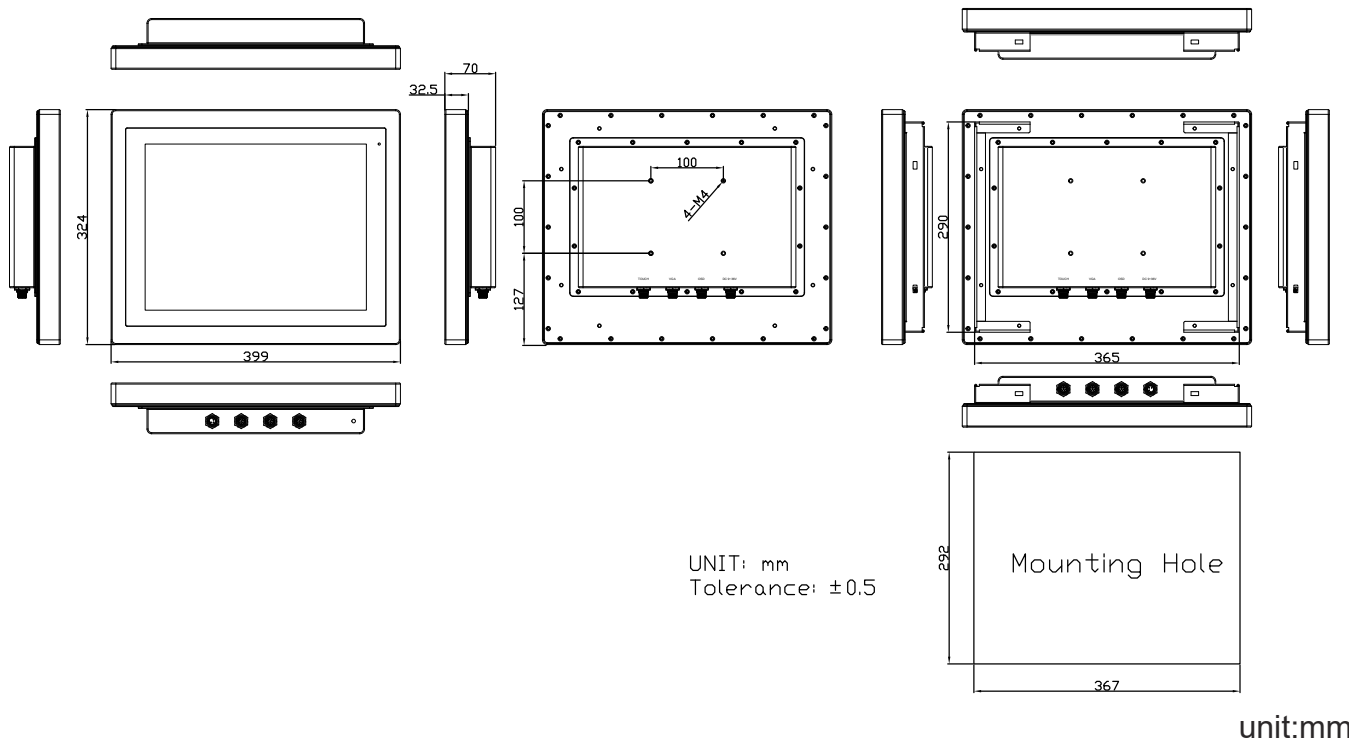




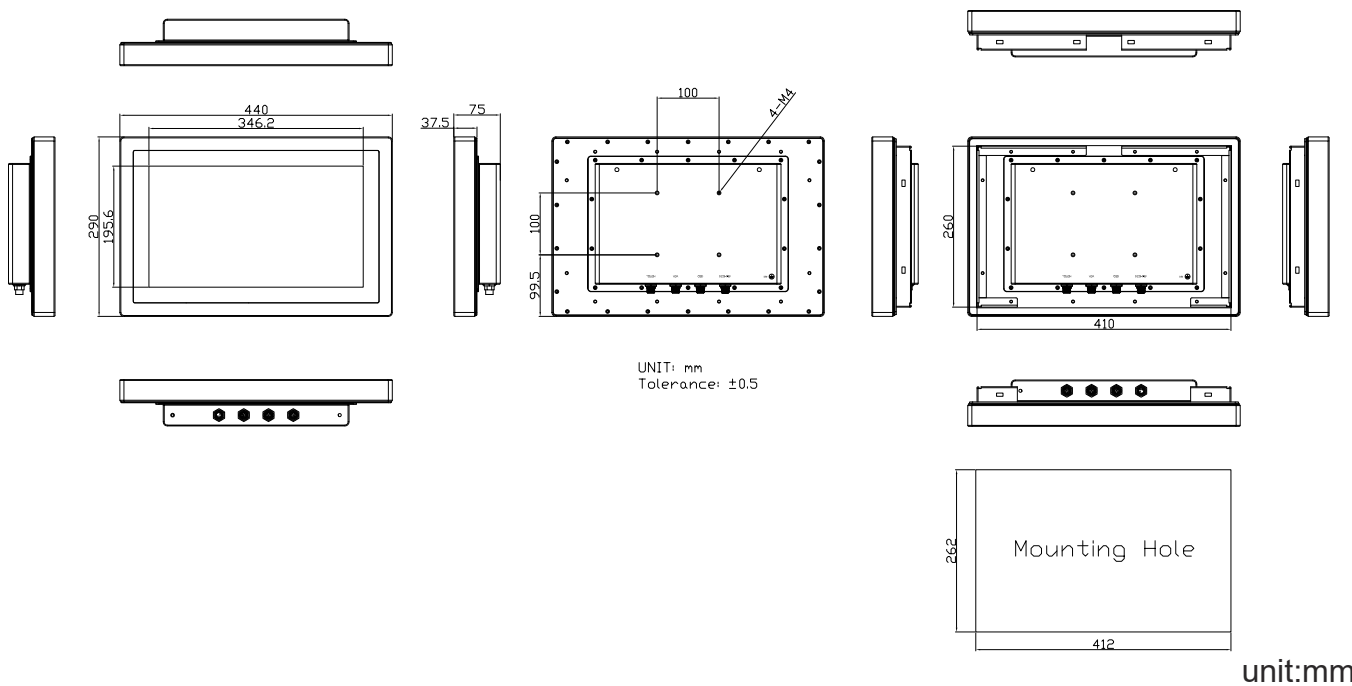




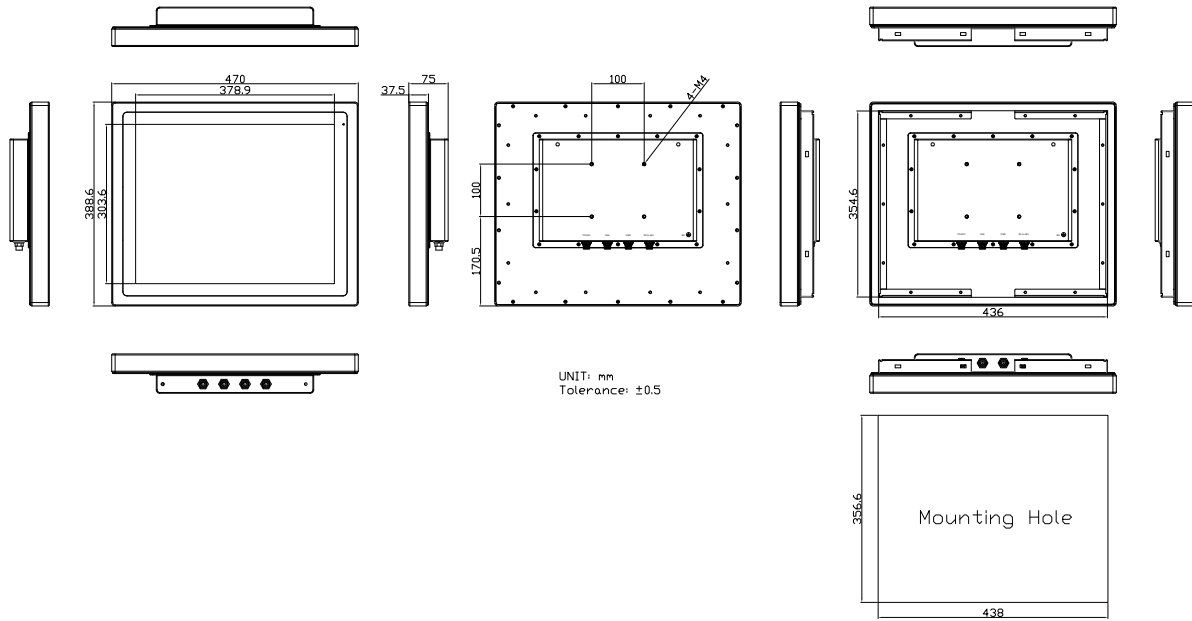
AEX-115P(H)



AEX-116P

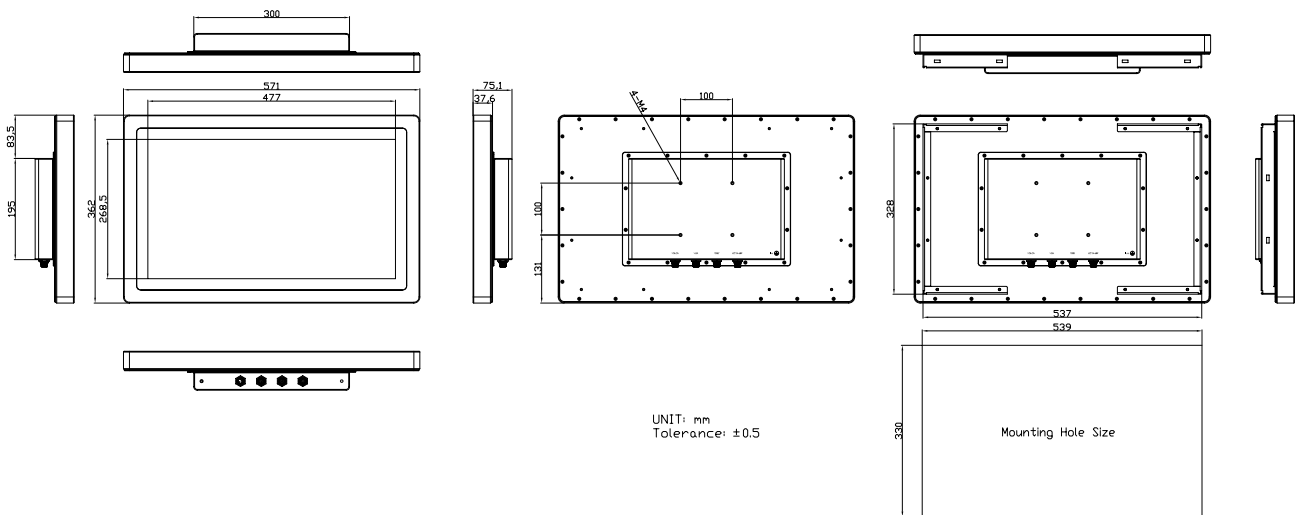


AEX-119P(H)



unit:mm

AEX-121P

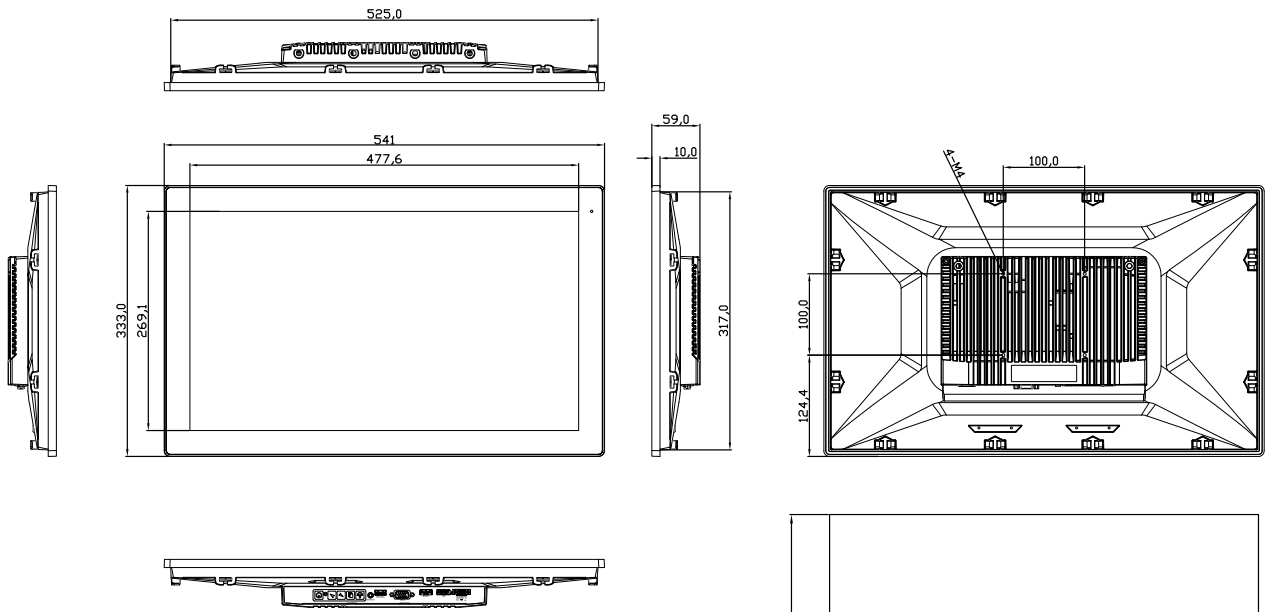


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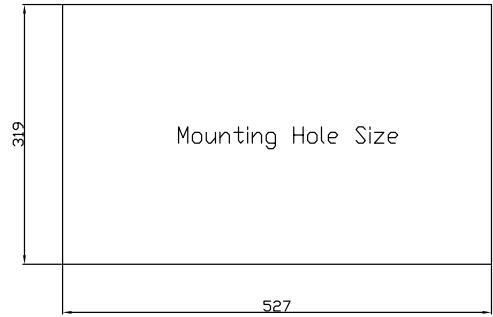




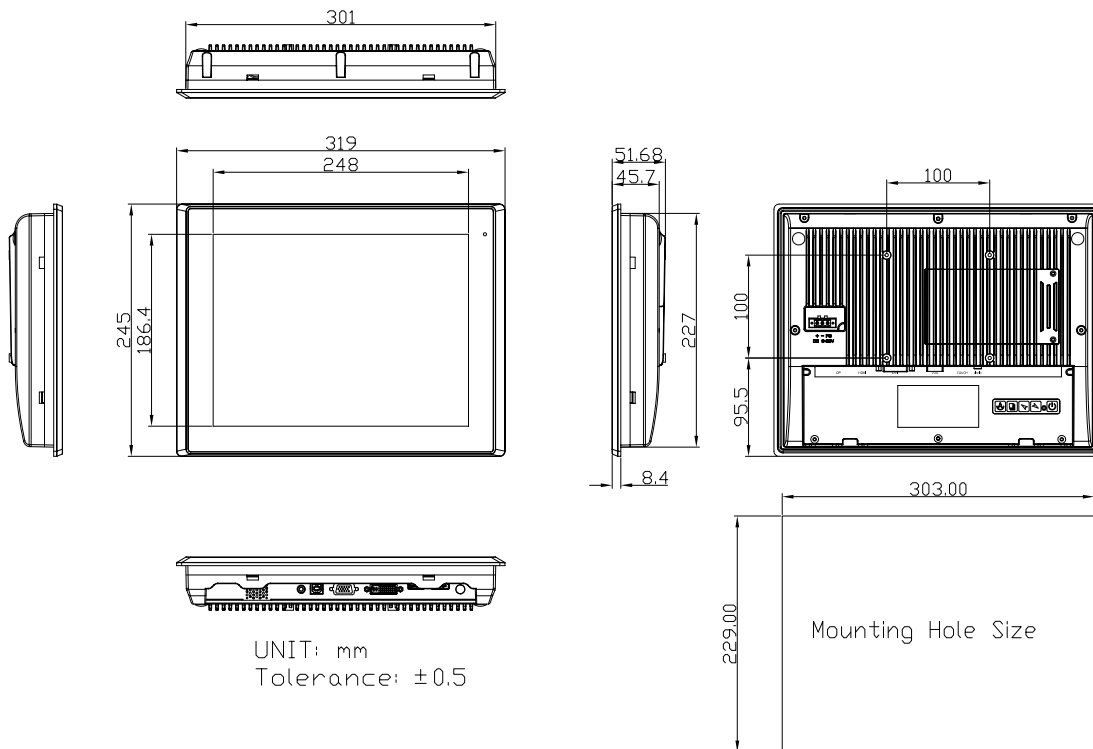
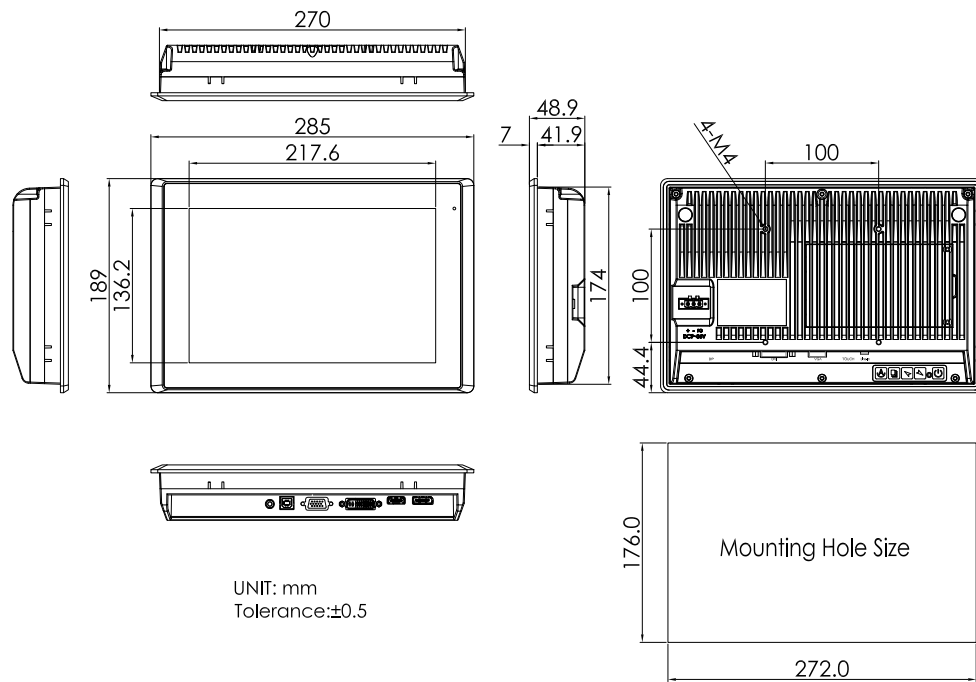


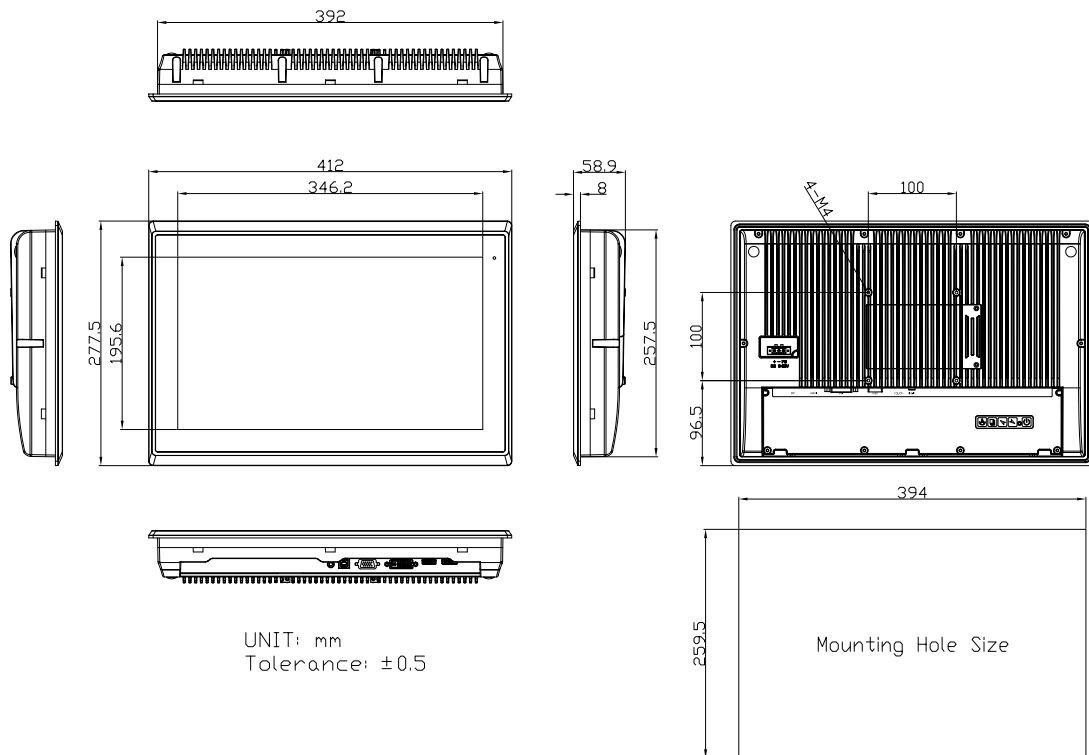
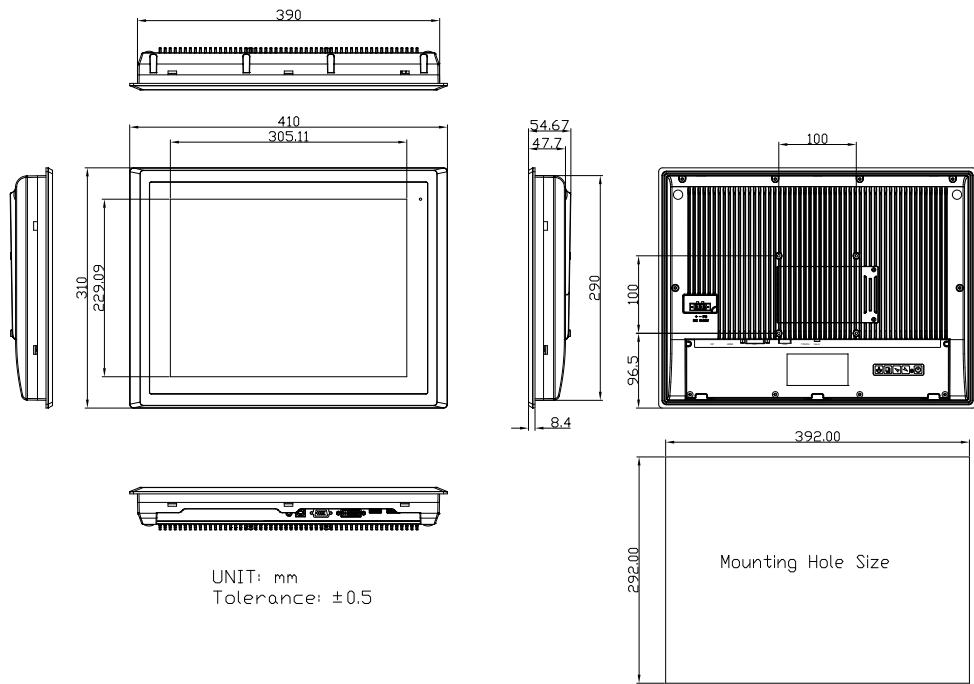


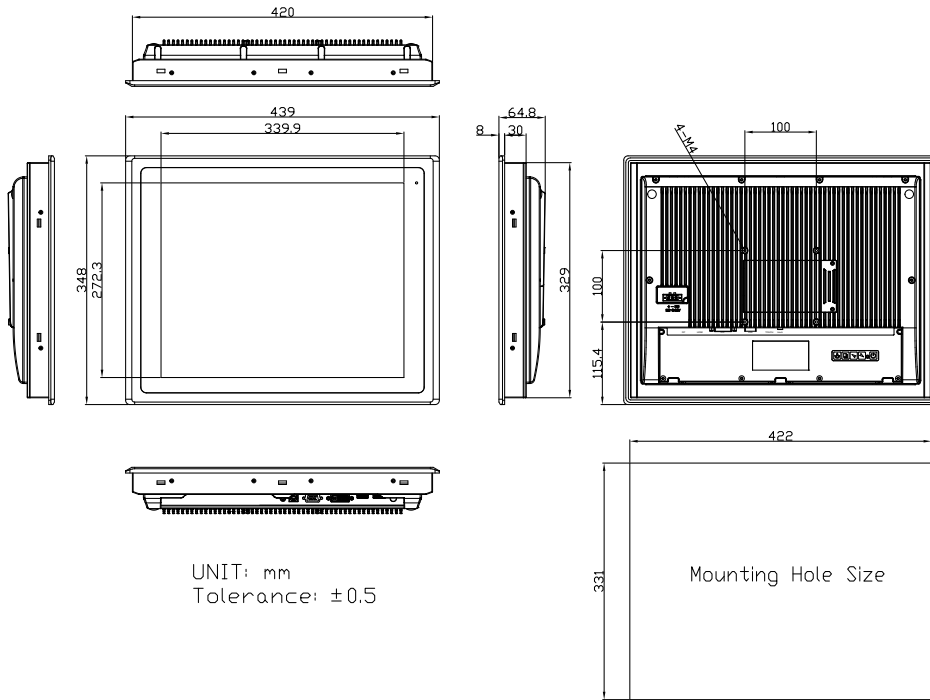
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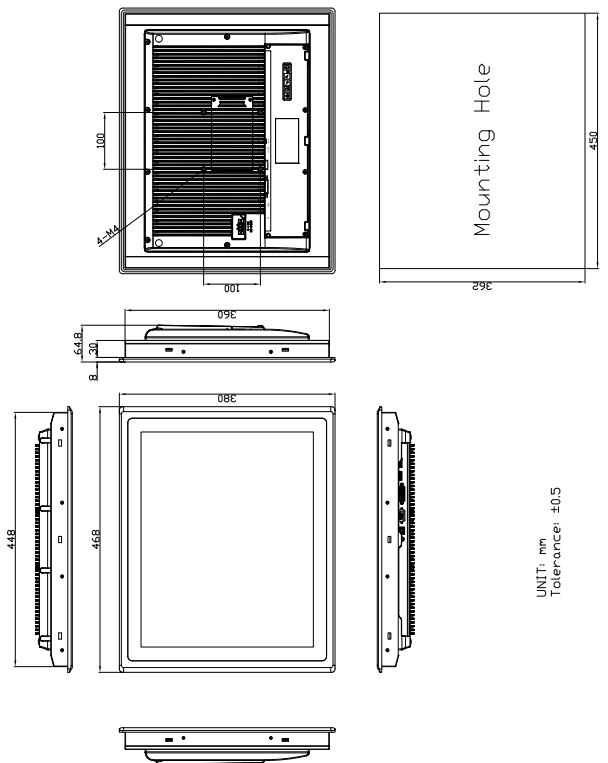








UNIT: mm
Tolerance: ±0.5



UNIT: mm
Tolerance: ±0.5

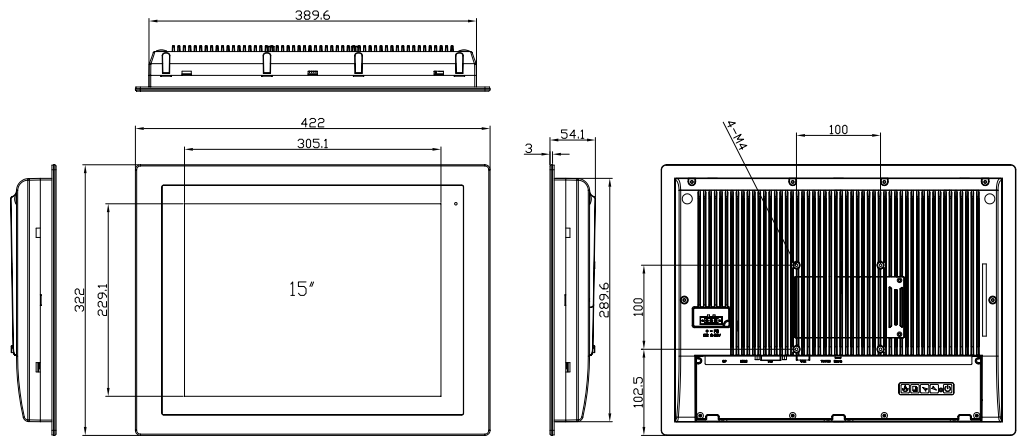




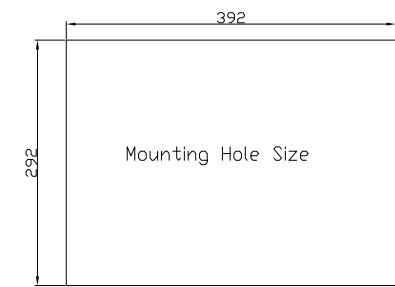






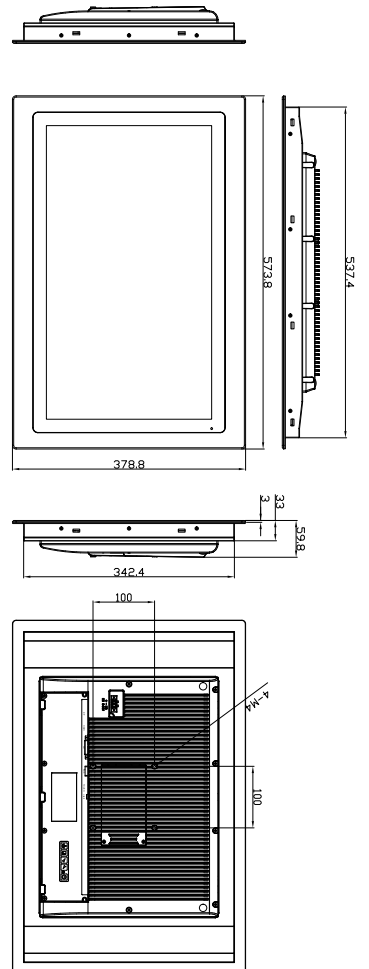


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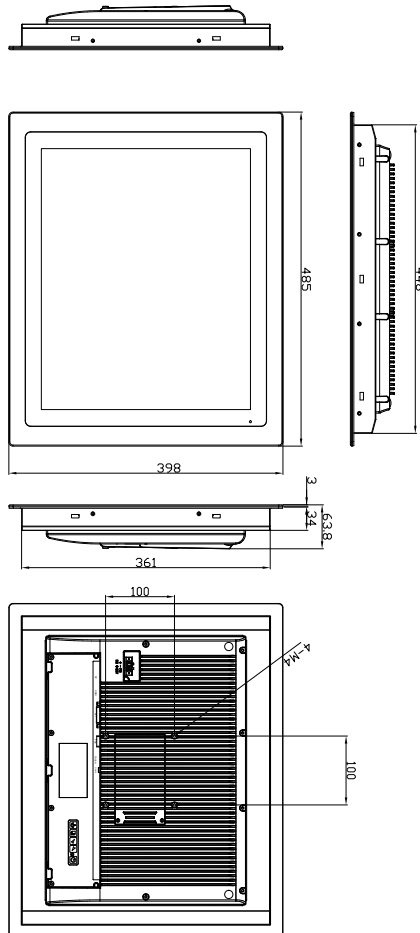
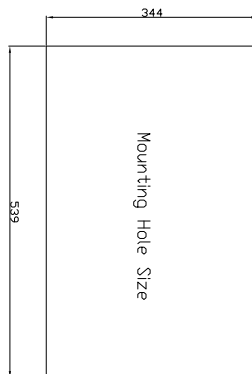




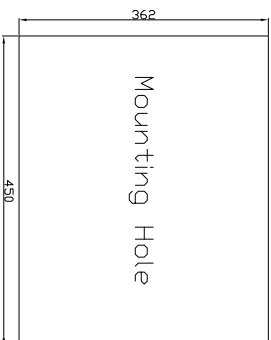
FABS-121P/R/G(H)



UNIT: mm
Tolerance: ±0.5



UNIT: mm
Tolerance: ±0.5



Ordering information

Model NO.	Description
FABS-107P	7" WVGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-110P	10.1" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-112P	12.1" SVGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-115P	15" XGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-116P	15.6" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-117P	17" SXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-118P	18.5" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-119P	19" SXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-121P	21.5" FHD FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-107R	7" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-110R	10.1" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-112R	12.1" SVGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-115R	15" XGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-116R	15.6" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-117R	17" SXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-118R	18.5" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-119R	19" SXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-121R	21.5" FHD FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-107G	7" WVGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-110G	10.1" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-112G	12.1" SVGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-115G	15" XGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-116G	15.6" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-117G	17" SXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-118G	18.5" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.
FABS-119G	19" SXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.
FABS-121G	21.5" FHD FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.

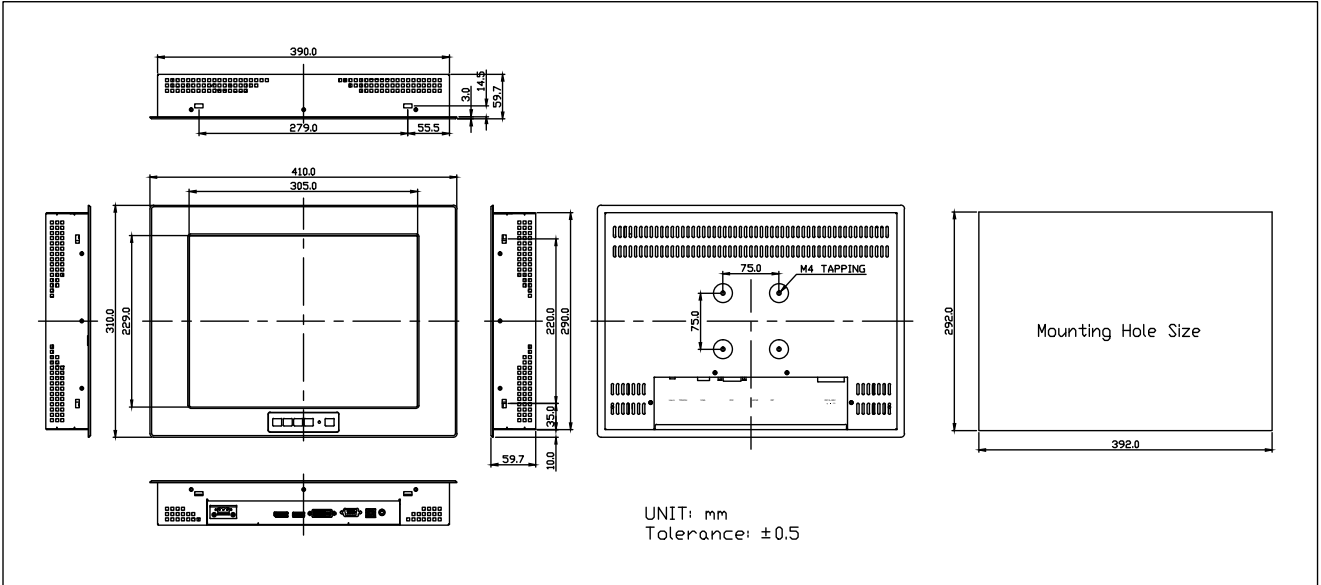




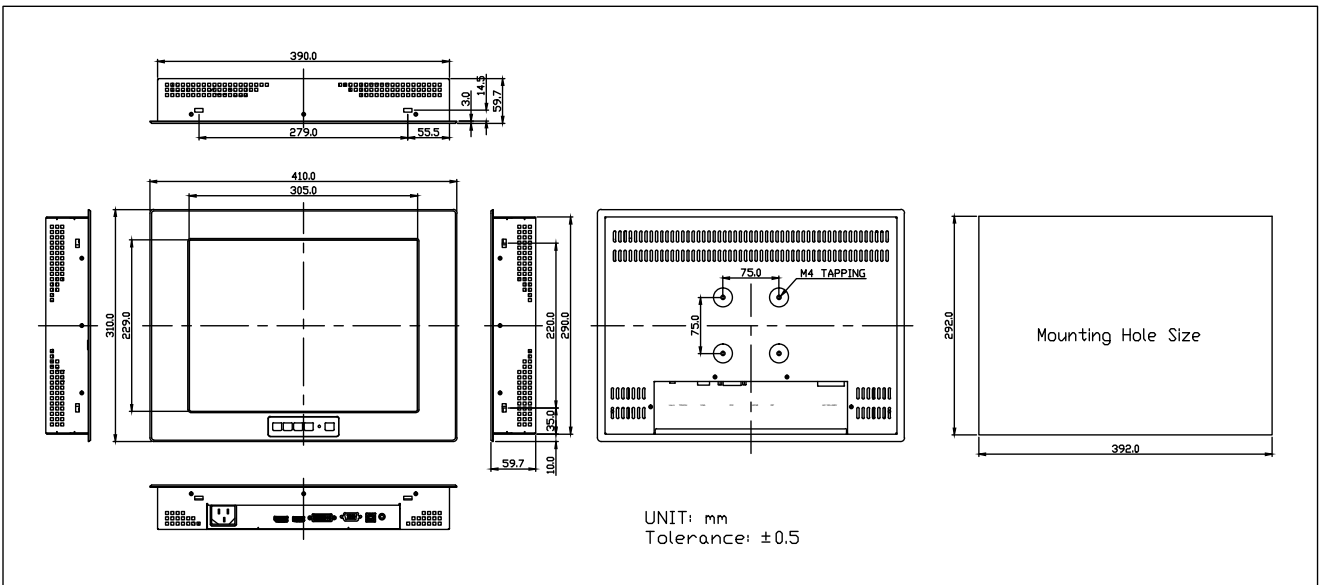
Specifications



ADP-1154A DC

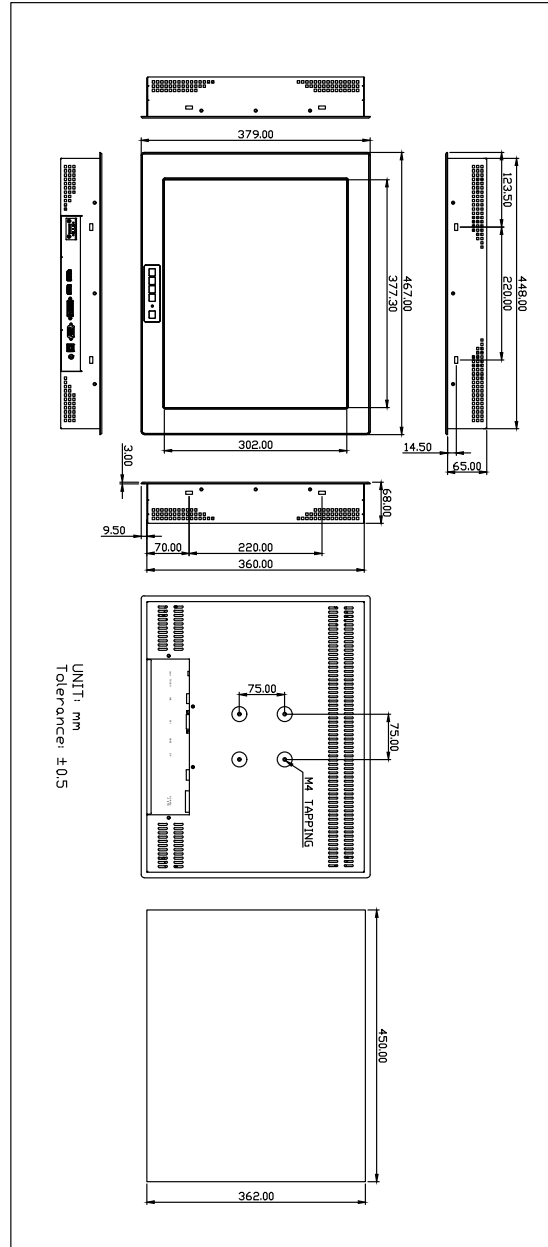


ADP-1154A AC

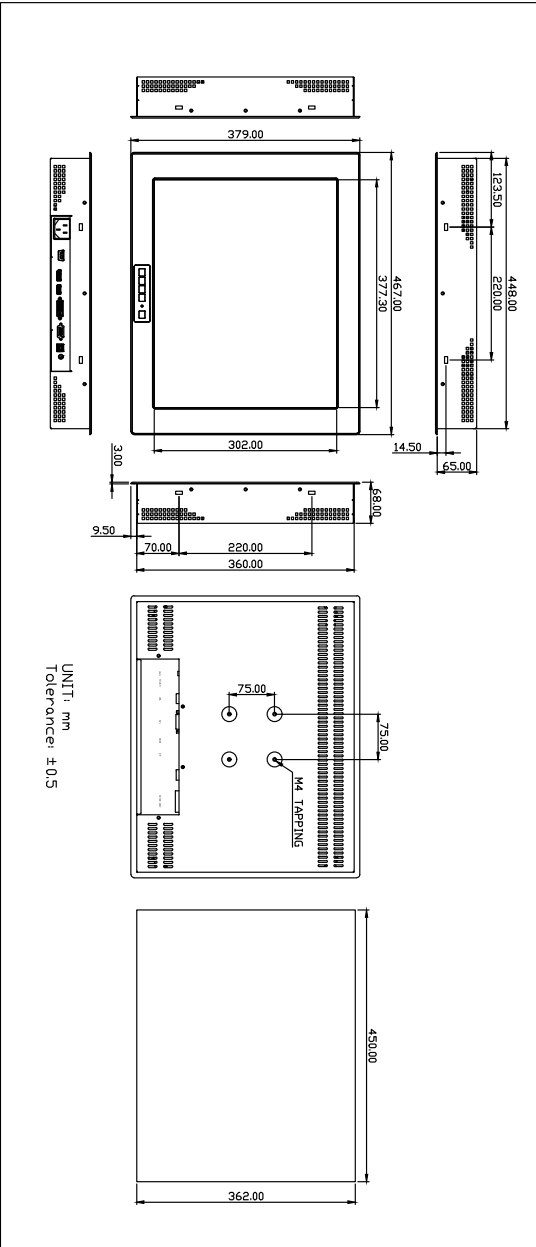




ADP-1194A DC



ADP-1194A AC

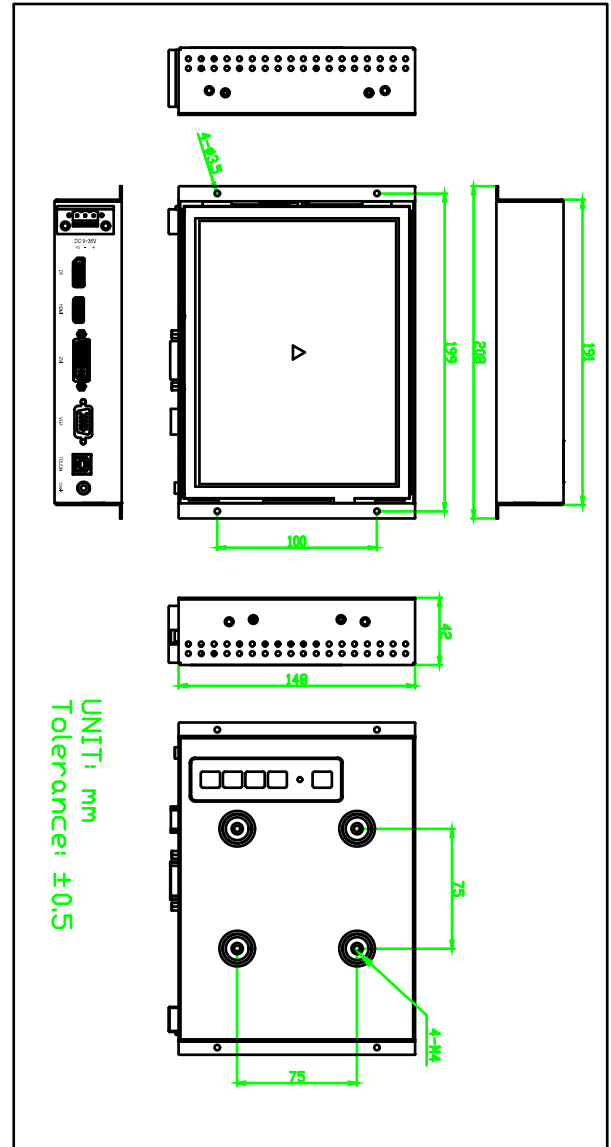
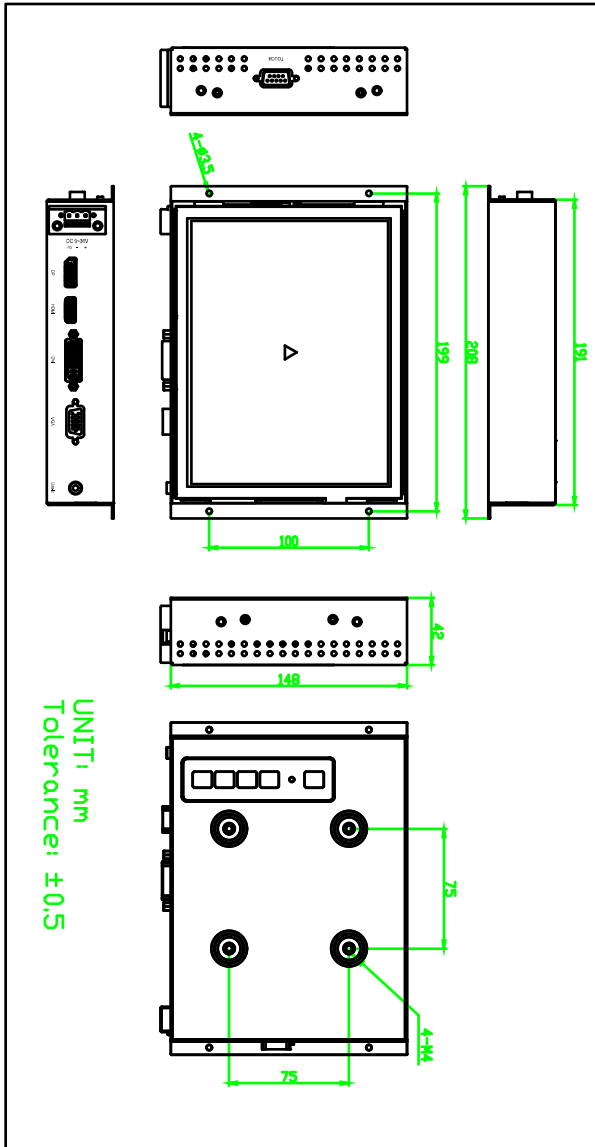








Product Specifications			
Model	Dimensions (mm)	Weight (kg)	Power Consumption (W)
Model A	100 x 100 x 20	0.1	5
Model B	150 x 150 x 30	0.2	10
Model C	200 x 200 x 40	0.3	15
Detailed Specifications			
Input Voltage	12V DC	5V DC	24V DC
Output Voltage	5V DC	12V DC	24V DC
Current	1A	2A	5A
Efficiency	85%	90%	95%
Environmental Conditions			
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Storage Temperature	-55°C to 100°C	-55°C to 100°C	-55°C to 100°C
Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
Mechanical Specifications			
Material	Aluminum	Aluminum	Aluminum
Finish	Black	Black	Black
Compliance			
CE	Yes	Yes	Yes
FCC	Yes	Yes	Yes
RoHS	Yes	Yes	Yes

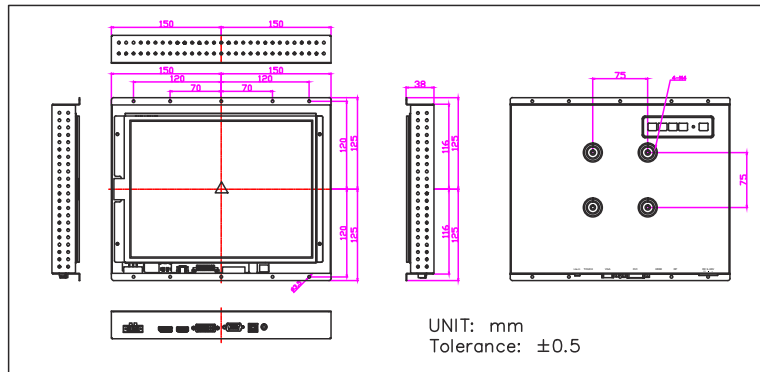


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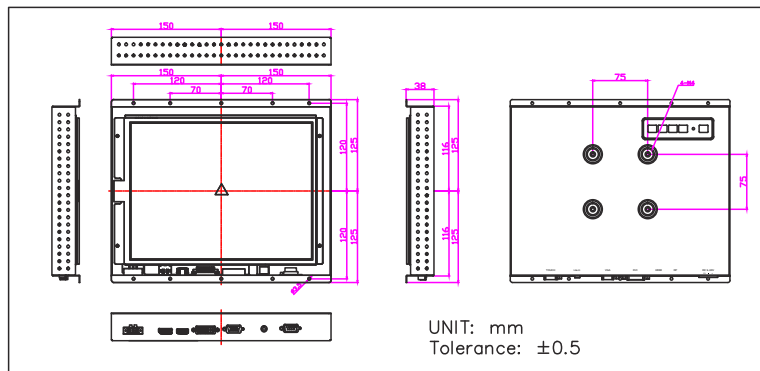
Ordering information

Model NO.	Description
OPD-1086C	8" SVGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter.
OPD-1126A	12.1" SVGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter.
OPD-1156A	15" XGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter.

OPD-1126A USB

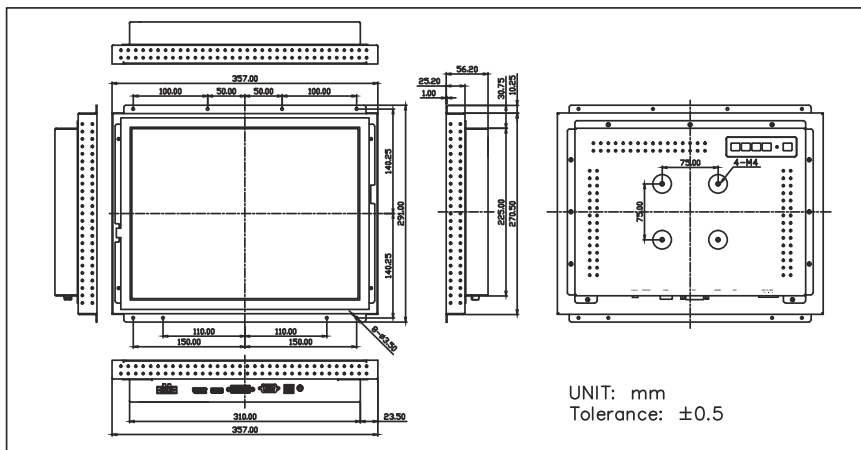


OPD-1126A RS-232

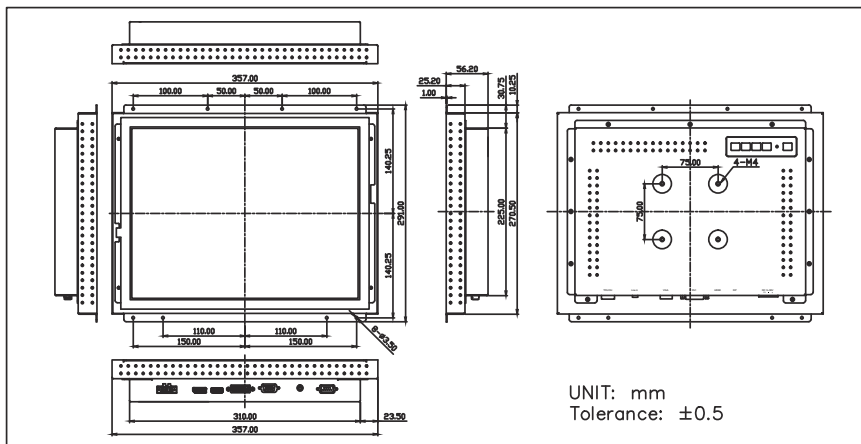


OPD-1156A

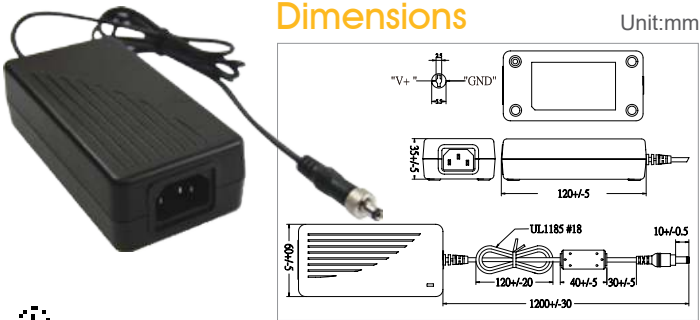
OPD-1156A USB



OPD-1156A RS232



EA1050 60W AC/DC Power Adapter



Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 12V
- Output Current: 5A
- Output Watts: 60W
- Efficiency: 75%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

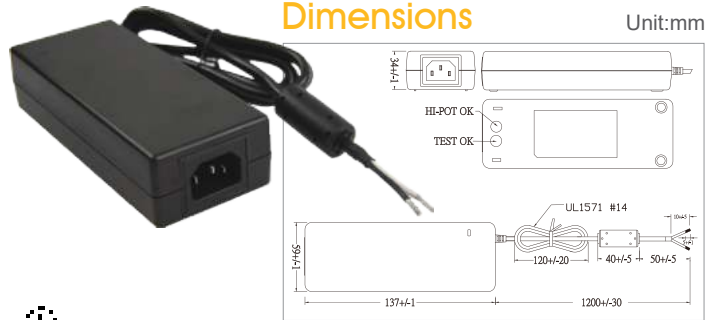
Connector Type



Description

- 60W AC/DC Power Adapter (Plug ID2.5 x OD5.5)
- 60W AC/DC Power Adapter (2pin Soldered Wires)
- 60W AC/DC Power Adapter (3pin Terminal Block)
- 60W AC/DC Power Adapter (Plug with Lock Screw ID2.5 x OD5.5)

EA11001 120W AC/DC Power Adapter



Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 19V
- Output Current: 6.3A
- Output Watts: 120W
- Efficiency: 85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

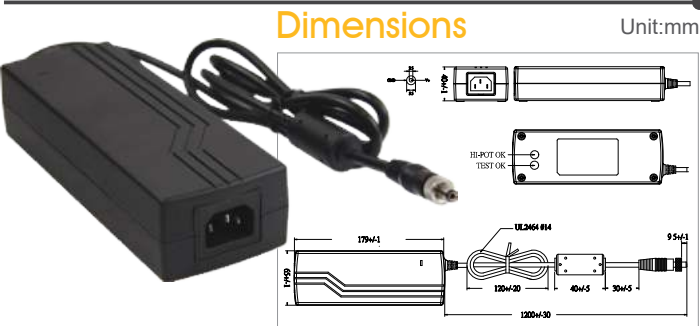
Connector Type



Description

- 120W AC/DC Power Adapter (2pin Soldered Wires)
- 120W AC/DC Power Adapter (3pin Terminal Block)

EA11351 120W AC/DC Power Adapter



Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 12V
- Output Current: 10A
- Output Watts: 120W
- Efficiency: 85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

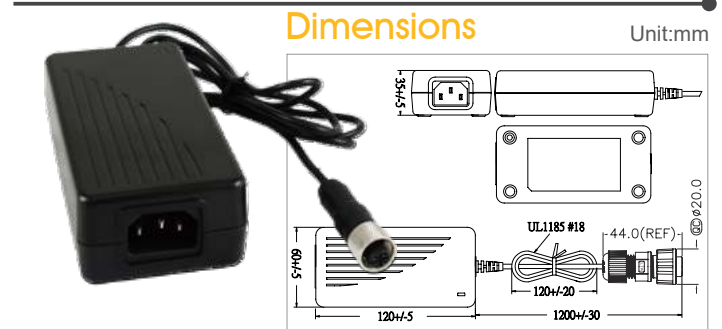
Connector Type



Description

- 120W AC/DC Power Adapter (Plug with Lock Screw ID2.5 x OD5.5)

IP65 Waterproof Connector EA1050 EA10001



Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Output Frequency: 47~63 Hz
- Output Voltage: EA1050:12V/EA10001:19V
- Output Current: EA1050:5A/EA10001:6.3A
- Output Watts: EA1050:60W/EA10001:120W
- Efficiency: EA1050:75%/EA10001:85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

Connector Type



Description

M12 Full IP65 Waterproof Connector HLG-60H-24A 60W AC/DC Power Adapter



Specifications

- Input Voltage Range : 90~305V AC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 24V
- Output Current: 2.5A
- Output Watts: 60W
- Efficiency: 89%
- Operating Temperature: -40°C~70°C
- Storage Temperature: -40°C~80°C

Connector Type



Description

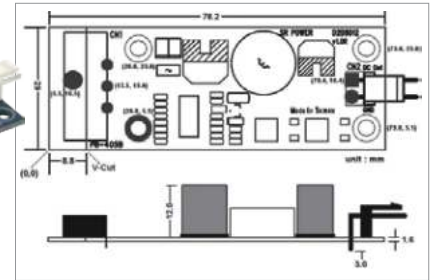
PB-409/80W DC/DC Power Module, DC input 9~35V

PB-405B DC/DC Power Module



Dimensions

Unit:mm



Specifications

- Wide range DC input 11~32V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 95% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

Pin Assignments

Output Connector

CN2	Pin1	Pin2
	+12V	GND

Description

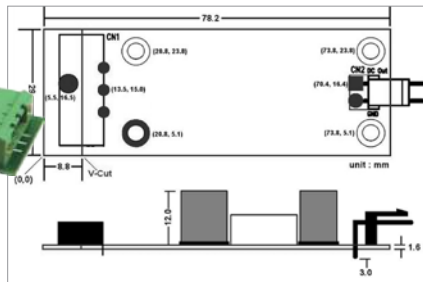
PB-405B/80W DC/DC Power Module, DC input 11~32V

PB-409 DC/DC Power Module



Dimensions

Unit:mm



Specifications

- Wide range DC input 9~35V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 92% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

Pin Assignments

Output Connector

CN2	Pin1	Pin2
	+12V	GND

Description

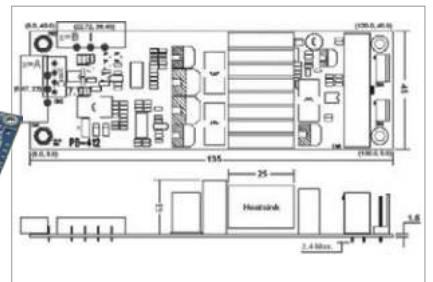
PB-409/80W DC/DC Power Module, DC input 9~35V

PB-412 DC/DC Power Module



Dimensions

Unit:mm



Specifications

- Wide range DC input 11~32V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 95% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

Pin Assignments

Output Connector

CN6	Standard 20Pin ATX
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Description

PB-412A/140W DC/DC Power Module/DC input 11~32V

PB-412B/140W DC/DC Power Module/DC input 11~32V

- Industrial Memory
- Temperature Ranges
 - Industrial Temperature: 0~70°C for operating
 - Extensive Temperature: -40~85°C for operating
- 100% Original DRAM IC
- High Reliability
- Lifetime Warranty

DDR3(L) Solution (Extensive Temperature)



Item	Description	
SO-DIMM	DDR3 1066/1333	1GB
	DDR3 1066/1333/1600	2GB
	DDR3 1066/1333/1600	4GB
	DDR3 1600	8GB

DDR4 Solution (Extensive Temperature)



Item	Description	
SO-DIMM	DDR4 2133/2166/2400	4GB
	DDR4 2133/2166/2400	8GB
	DDR4 2133/2166/2400	16GB



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