



## Dell Embedded Box PC 3000 and 5000 Series



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Speed solutions to market with quality, reliable embedded box PCs delivered in weeks, not months

#### An underserved embedded industry

Do you need reliable embedded PCs, delivered quickly? Some embedded vendors substitute cheaper, unreliable components that can cause expensive downtime and impact your business reputation. Or they provide highly complex systems, difficult to aggregate. Some offer no scalability from small to large quantities, only high volume discounts. Lead times are typically measured in months or quarters, with only basic hardware warranties and no certifications of the device.

#### Addressing the industrial PC market

Dell now brings to embedded computers (also called industrial PCs) new ruggedized devices, Internet of Things (IoT)-ready, with broad connectivity and backed by Dell's brand and proven heritage of business benefits:

- Delivery in weeks at effective price points, with a configure-to-order approach — for orders of one, small batches or large volumes
- Commercial quality standards for Dell products and suppliers to reduce risk and improve reliability
- Enterprise-grade security and manageability options, to improve protection and flexibility
- Global service and support, with five-year support program options, so you deploy quicker
- Flexible payment options designed to help you acquire the total solution.<sup>1</sup>

#### Ruggedized and ready to commission

Dell Embedded Box PC 3000 and 5000 are designed to MIL-STD-810G standards, building on the expertise of our rugged device engineers. They are meant to be used 24x7x365 for a long planned life, headless or with keyboard, mouse and monitor. Dell Embedded Box PCs are ruggedized, fanless, highly reliable devices for a variety of use cases, including process and discrete manufacturing, fleet management, kiosks, digital signage, surveillance and automated retail solutions. Flexible, with many input/output (I/O) options, they run on powerful multi-core Intel® processors. PCI/PCIe card slots provide

flexible expansion for new I/O and graphics capabilities. Form factors are optimized for VESA, DIN-rail and wall mounting, and they come with WWAN and WLAN compliance complete for many countries.

#### Right quantities

At Dell, we offer good price points on minimum order quantities of one, small batches and essentially no volume too big for our global organization. Our fully configured systems in stock deliver in weeks, not months. No need to order and store large quantities, so you lower costs of carried inventory and have less risk of technology obsolescence.

#### Quality and reliability

Lost availability can cause expensive downtime. Dell delivers reliability with stringent process and leading validation practices on our embedded PCs. Our advanced product reliability engineering occurs at all levels of the product prior to release and with rigorous requirements for our suppliers as well. With Dell as your OEM, you can be confident your own solutions support your brand.

#### End-to-End Support

With the Dell Embedded Box PC, you also get an end-to-end service solution, including Dell Deployment Services, and Dell Basic Hardware Warranty that can be extended up to 5 years. Dell ProSupport with options up to 5 years are available. The Dell services solution helps your business streamline deployment and support so you can focus on innovation.

#### Flexible branding options and OEM

An OEM-Ready version of the Embedded PCs is available. From bezel to BIOS to packaging, your Embedded PCs can look and feel as if they were designed and built by you. Some options, such as memory and operating systems, change for OEM-ready. For more information, visit [Dell.com/OEM](http://Dell.com/OEM).

# Technical Specifications

Model Number	Dell Embedded Box PC 3000		Dell Embedded Box PC 5000	
Dimensions	237 mm wide x 160 mm high x 60 mm deep (9.5 x 6.5 x 2.5 inches)		246 mm wide x 270 mm high x 107 mm deep (9.5 x 10.5 x 4.2 inches)	
Weight	Target: 2.0 kg, Max: 2.8 kg		5.8 kg	
CPU/speed	Dual-core Intel® Atom® E3825 (1.33GHz)	Dual-core Intel® Atom® E3827 (1.75GHz)	Dual-core Intel® Celeron® G3900E (2.4GHz)	Dual-core Intel® Core i3-6100E (2.7GHz)
	Quad-core Intel® Atom® E3845 (1.91GHz)		Quad-core Intel® Core i5-6440EQ <sup>2</sup> (up to 3.4GHz)	Quad-core Intel® Core i7-6820EQ <sup>2</sup> (up to 3.4GHz)
Drive/Storage	HDD & SSD m.2 (with interposer) options: 1x HDD or 1x SSD. Client SATA HDD is 500 GB or 1 TB. SSD is 32 GB, 64 GB or 128 GB. (Drive affects temperature.)		HDD & SSD m.2 (with interposer) options: 2x HDD or 2x SSD or 1x SSD + 1x HDD. SSD is 32 GB, 64 GB or 128 GB. Client SATA HDD is 500 GB or 1 TB. (Drive affects temperature.)	
Memory	DDR3L type @ 1600MHz: 4GB (1x4GB) or 8GB (1x8GB)		DDR4 type @2133MHz: 4GB (1x4GB), 8GB (2x4GB or 1x8GB) or 16GB (2x8GB)	
I/O	Dual Gigabit Ethernet: 2 x RJ-45. USB: 4 x USB2, 1 x USB3. Serial interfaces: 2 x RS-232/485; 1 x RS-232/422 via multi-function port; set by BIOS. GPIO: 12 bit (via multi-function port). Wireless: Wi-Fi IEEE 802.11n +Bluetooth LE; Mobile Broadband/WWAN (3G or LTE) WLAN requires Ubuntu Desktop. Options: ZigBee module, CAN bus card, Bluetooth option via WLAN. (Limited to 2 out of 3: WWAN, WLAN, or CAN bus)		Dual Gigabit Ethernet: 2 x RJ-45. USB: 4 x USB2, 4 x USB3. Serial Interfaces: 4 x RS-232/422/485 (set by BIOS). GPIO: 16-bit. Wireless: Wi-Fi IEEE 802.11n +Bluetooth LE; Mobile Broadband/WWAN (3G or LTE) WLAN requires Ubuntu Desktop. Options: ZigBee module, CAN bus card, Bluetooth option via WLAN, Parallel via PCIe card. (Limited to 2 out of 3: WWAN, WLAN, or CAN bus)	
Expansion	None		2 PCI/PCIe slots: riser card options: 2 x PCI or 1 x PCI + 1 x PCIe x 16.	
Video	2 simultaneous displays: 1 x DP++ 1.1, VGA. Resolution: Max DP++ 4096x2304; max VGA 2560x1080@60Hz.		3 simultaneous displays: 2 x DP++ 1.2, HDMI 1.4, VGA. Resolution: Max DP++ 4096x2304; max HDMI 4096x2160@24Hz; max VGA 1920x1200@60Hz. (Later in 2016: Optional discrete graphics card)	
Power input	Nominal input 24V DC (12-26V). Also accepts Dell AC adapter, 130W with locking plug.		Nominal input 24V DC (12-26V). Also accepts Dell AC adapter, 180W with locking plug.	
Audio	Via multi-function port: Mic-in, Line-in, Line-out.		Native: Mic-in, Line-in, Line-out.	
Environmental/Design	IP30 Rating. Designed to MIL-STD-810G. 0°C to 50°C with SSD; 0°C to 40°C with HDD.			
Form Factor	Fanless design, optimized for wall, DIN-rail and VESA mounting			
Security	Trusted Platform Module (TPM) v2.0 capable for Windows 10 OS; TPM v1.2 for Win7 and Ubuntu OS. Secure Boot, BIOS password and I/O port disablement.			
Operating systems	At Launch: Microsoft: Win 7 Pro, Win 7 Pro for Embedded Systems; Ubuntu Desktop. Later in 2016: Microsoft Win 10 Pro, Win 10 IoT Enterprise LTSB. OS choices affect WLAN; OEM affects OS.			
Manageability	Available Microsoft® SCCM integration and remote cloud management option via Dell Edge Device Manager.			
Software	Optional Dell Boomi and Statistica software for backend data integration and distributed analytics. Support for third-party software solutions, including offerings from our qualified ISV partners.			
Warranty & Services	Commercial services vary. Limited hardware warranty <sup>3</sup> with mail-in service, option to extend up to 5 years; ProSupport services <sup>4</sup> with contract options up to five years.			
Services	Custom configuration service (BIOS, your software image, etc.) available. Dell's IoT services, cloud services, vertical services and other solutions available.			
Accessories/Ecosystem	Monitor, keyboard, mouse, software and services. Model 3000 requires 7-in-1 cable for multi-function port for: PS/2 mouse, PS/2 keyboard, RS 232/422 serial, 12-bit GPIO, mic-in, line-in, line-out.			
OEM	OEM-Ready version available for OEMs: make it yours, from bezel to BIOS to packaging. OEM affects choices in OS, memory, input-output, etc.			

Visit online for more information: [dell.com/embedded](http://dell.com/embedded)

<sup>1</sup> Terms subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS.

<sup>2</sup> Some configurations may enable power protection management in your operating environments above 35°C.

<sup>3</sup> For copy of Limited Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 7882 or see [www.dell.com/warranty](http://www.dell.com/warranty)

<sup>4</sup> Onsite Service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty ([www.dell.com/warranty](http://www.dell.com/warranty)) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.

