



Dell Edge Gateway 5000 Series



Collect, analyze, relay and act on Internet of Things data at the edge of the network with this IoT gateway purpose-built for Building and Industrial Automation.

Analytics at the edge

The Dell Edge Gateway 5000 Series is designed to aggregate, secure and relay data from diverse sensors and equipment. The Intel® Atom™ processor provides capacity to perform local analytics so only meaningful information is sent to the next tier, which could be another gateway, the datacenter or the cloud. This minimizes consumption of expensive network bandwidth and reduces overall solution latency.

For IT and Operations Technology

Unlike PCs and servers, the Dell Edge Gateway 5000 Series is designed to attach to a wall or DIN rail in commercial and industrial environments. Combine the gateway with Dell's IT expertise, choice of operating system and software from our certified, operations-focused ISV partners to meet the needs of both IT and Operations Technology (OT) organizations.

Tough for many environments

Engineered with an industrial-grade form factor and fanless, solid-state design, the Dell gateway can reliably run 24x7 with long life at extended temperatures, in addition to withstanding the higher levels of humidity and dust typical of industrial environments. The Model 5100 supports operating temperatures from -30°C to 70°C, making it perfect for use in extreme conditions such as boiler rooms or inside rooftop HVAC units.

Dell Services and Support

Dell offers a complete services solution for the Dell Edge Gateway 5000 Series, including Basic Hardware Support and ProSupport to provide end-to-end hardware support throughout the product lifecycle. Plus, with our Configuration Service we can configure gateways to your specifications, including custom BIOS settings and installation of your software image.

Expanded I/O and communication protocols

Make the most of the equipment you already have and expand capabilities with new technologies. Connect broadly with the physical world using Dell IoT gateways, bridging both legacy systems and modern sensors to the internet. With the right physical I/O and our certified ISV middleware, you can aggregate and normalize virtually any data source, ranging from industry-standard protocols such as BACNet, Modbus and CANbus, to modern wireless mesh networks like ZigBee and 6LoWPAN.

Security built in

You can depend on Dell's broad IT security portfolio. Dell's gateways feature a TPM chip for hardware root of trust, secure boot and BIOS-level lockdown of unused I/O ports. Security is as much about best practices as it is features and Dell offers expertise to build security measures throughout your solution.

Flexibility and manageability

Dell IoT gateways are designed for the flexible manageability that IT requires. WindRiver is supported by Helix Device Cloud and Ubuntu and Windows IoT customers get their choice of Dell Edge Device Manager (EDM) or a third-party on-premise console such as Microsoft System Center, backed by the Dell Command Client Suite for both Linux and Windows.

Flexible branding options or end-to-end

Specifically designed for original equipment manufacturers, an OEM-Ready version of the gateway is available, or ask us to enable a **full IoT system** for your specific business need. Talk to us about our cloud, servers, storage, networking and mobility solutions for IoT. We are experts in manageability, security, data integration, analytics and services for end-to-end IoT solutions.

| | Dell Edge Gateway Model 5000 (Commercial version) | | Dell Edge Gateway Model 5100 (Industrial version) | |
|------------------------------------|--|---|--|---|
| Environmental | Operating temperature 0°C to 50°C; Relative humidity 5% to 95% non-condensing | | Operating temperature -30°C to 70°C; Relative humidity 5% to 95% non-condensing | |
| Dimensions | 229 mm wide x 216 mm high x 64 mm deep (9 in x 8.5 in x 2.5 in) | | 229 mm wide x 216 mm high x 75 mm deep (9 in x 8.5 in x 2.9 in) | |
| Form Factor | Fanless design. Optimized for wall and DIN-rail mounting | | Fanless design. Optimized for wall and DIN-rail mounting. Designed for industrial conditions | |
| Weight | Starting at 3.0 Kg | | Starting at 3.2 Kg | |
| Processor | Intel® Atom™ E3825 1.33GHz 2 cores | Intel® Atom™ E3827 1.75GHz 2 cores | Intel® Atom™ E3825 1.33GHz 2 cores | Intel® Atom™ E3827 1.75GHz 2 cores |
| Memory | 2G (4x256Mx16 DDR3L) 1067MHz | 4G (8x 256Mx16 DDR3L) or 8G (8x 512Mx16 DDR3L) 1333MHz | 2G (4x 256Mx16 DDR3L) 1067MHz | 4G (8x 256Mx16 DDR3L) 1333MHz |
| Warranty and service ³ | Commercial services vary. Limited hardware warranty with mail-in service; ProSupport with on-site service ² after remote diagnosis, up to 5 years. Custom factory integration service. | | | |
| Operating system | Factory options for Ubuntu Snappy Core and Wind River Linux. Windows 10 IoT Enterprise LTSC | | | |
| Security | Trusted Platform Module (TPM) v2.0 (not compatible with Ubuntu); Secure Boot, BIOS password and I/O port disablement. Chassis intrusion alert via optional rugged enclosure. | | | |
| Manageability | Wind River Helix Device Cloud. Microsoft Windows 10 IoT Enterprise LTSC and Microsoft Azure IoT Suite. Dell Edge Device Manager (EDM) with Ubuntu Snappy and Windows 10. All options are purchased as separate submissions. | | | |
| I/O | Dual Independent Gigabit Ethernet (RJ-45) USB: 2 x USB2, 1 x USB3 Serial Interfaces: 1 x RS-232, 2 x RS-485. 1 x RS-422/485. Optional CANbus card Optional modular I/O expansion interface 802.11n Wifi +Bluetooth Low Energy; WWAN (3G or LTE). Optional wireless mesh modules: IEEE 802.15.4 ZigBee/6LoWPAN combo module Plus ISV application support for diverse modern and legacy device connection protocols. | | | |
| Storage | Solid-state drive options (m.2 form factor): 32 GB or 64 GB options | | | |
| Video | One HDMI port | | | |
| Power Input | Nominal input 24V AC/DC (18 – 26.4V), 4.0 Amps. Optional expansion power module Also accepts standard Dell notebook AC adapter, 65W, 7.4mm plug. | | | |
| 5000 Series Accessories (Optional) | Optional expansion power module, Optional I/O expansion module (houses a PCIe card; requires the power module option), Optional IP65 rugged enclosure (built for Model 5100, validated with Model 5000) | | | |
| Data integration and analytics | Available Dell Boomi and Statistica software for backend data integration and distributed analytics. Series 5000 gateways can also support third-party solutions, including offerings from our certified ISV partners. | | | |
| IoT Services | Optional IoT advisory consulting, configuration and applications development services. Custom configuration service (BIOS, your software image, etc.) available. | | | |
| OEM / Co-branding | OEM-Ready version available: From bezel to BIOS to packaging, your Edge Gateways can look and feel as if they were designed and built by you. For more information, visit Dell.com/OEM . | | | |

Find more online at dell.com/IoTgateway

1. 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
2. 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) 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.
3. Dell Services: availability and terms of Dell Services vary by region. For more information visit dell.com/servicesdescriptions.

