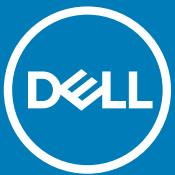


# Dell Edge Gateway 3003

## Specifications



## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Dimensions and weight

## Product

**Table 1. Product**

Height	125 mm (4.92 in)
Width	125 mm (4.92 in)
Depth	51 mm (2 in)
Weight	1 kg (2.20 lb)
Volume	0.80 L

## Packaging

**NOTE:** The packaging weight includes the total weight of the Edge Gateway and four antennas. Antennas are available in the accessory box shipped with the Edge Gateway.

**Table 2. Packaging**

Height	262 mm (10.32 in)
Width	139 mm (5.47 in)
Depth	241 mm (9.49 in)
Shipping weight (includes packaging materials)	1.71 kg (3.77 lb)

## Mounting dimensions

**NOTE:** Mounting dimensions includes the dimensions of the Edge Gateway and various mounting options.

**NOTE:** Each mounting option is sold separately.

**Table 3. Mounting dimensions**

	Standard mount	Quick mount	Quick mount and cable control bars	DIN mount	Perpendicular mount	Standard mount and cable control bars
Weight	1.23 kg (2.71 lb)	1.26 kg (2.78 lb)	1.55 kg (3.42 lb)	1.02 kg (2.25 lb)	1.10 kg (2.42 lb)	1.53 kg (3.37 lb)
Height	169.20 mm (6.66 in)	169.20 mm (6.66 in)	222.30 mm (8.75 in)	125 mm (4.92 in)	125 mm (4.92 in)	222.30 mm (8.75 in)
Width	167.20 mm	167.20 mm	273.30 mm	125 mm	143.50 mm	273.30 mm

	<b>Standard mount</b>	<b>Quick mount</b>	<b>Quick mount and cable control bars</b>	<b>DIN mount</b>	<b>Perpendicular mount</b>	<b>Standard mount and cable control bars</b>
	(6.58 in)	(6.58 in)	(10.76 in)	(4.92 in)	(5.65 in)	(10.76 in)
Depth	61.90 mm (2.44 in)	64.60 mm (2.54 in)	64.60 mm (2.54 in)	59.20 mm (2.33 in)	55.50 mm (2.18 in)	61.90 mm (2.44 in)

## VESA mounting dimensions

The Edge Gateway can be mounted on a standard VESA mount.

**Table 4. VESA mounting dimensions**

Height	75 mm (2.95 in)
Width	75 mm (2.95 in)

# Environmental and operating conditions

## Environmental conditions

**Table 5. Environmental conditions**

Ingress protection rating	IP50
Water and dust ingress	IEC 60529

 **CAUTION:** Install the Edge Gateway in an area that is not exposed to direct sunlight.

 **NOTE:** The Edge Gateway underwent and complies with salt fog testing conducted according to Mil-Std-810G Method 509.5, Procedure 1.

 **NOTE:** For outdoors and rugged environments, install the Edge Gateway in an external enclosure (sold separately).

## Operating conditions

**Table 6. Operating conditions**

### Maximum vibration

Operational	<ul style="list-style-type: none"> <li>5 Hz with 0.0002 G<sup>2</sup>/Hz</li> <li>350 Hz with 0.0002 G<sup>2</sup>/Hz</li> </ul> <p> <b>NOTE:</b> Operational values are based on the 0.26 Grms profile. These values are tested for all operational orientations and are retrieved from two minutes per test orientation with IO meter.</p> <p> <b>NOTE:</b> All screws on the Edge Gateway are embedded with a Nylock seal to resist vibration and loosening.</p>
Non-operational	<ul style="list-style-type: none"> <li>10 Hz with 0.003 G<sup>2</sup>/Hz</li> <li>20 Hz with 0.01 G<sup>2</sup>/Hz</li> <li>250 Hz with 0.01 G<sup>2</sup>/Hz</li> </ul> <p> <b>NOTE:</b> Non-operational values are based on the 1.54 Grms profile. These values are tested for all non-operational orientations and are retrieved every sixty minutes per test orientation with IO meter.</p>
Long Life Vibration	0.79 Grms

 **NOTE:** The values are tested for all operational orientations and are retrieved every five hours per test orientation with IO meter.

### Maximum shock

Operational	Half sine shock
-------------	-----------------

	All operational orientations; 40 G $\pm$ 5% with pulse duration of 2 msec $\pm$ 10% (equivalent to 20 in/sec [51 cm/sec])
Non-operational	Half sine shock
	Tested on all six sides; 160 G $\pm$ 5% with pulse duration of 2 msec $\pm$ 10% (equivalent to 50 in/sec [127 cm/sec])
<b>Maximum altitude</b>	
Operational (maximum, unpressurized)	-15.20 m to 5,000 m (-50 ft to 16,404 ft)
	<b>①   NOTE:</b> The maximum temperature is derated 1°C/305 m (1000 ft) above sea level altitude.
Non-operational (maximum, unpressurized)	-15.20 m to 10,668 m (-50 ft to 35,000 ft)
<b>Operating environment</b>	
Temperature range (system)	<ul style="list-style-type: none"> <li>Operating: <ul style="list-style-type: none"> <li>With 0.7 m/s airflow: -30°C to 70°C (-22°F to 158°F)</li> <li>Without airflow: -30°C to 60°C (-22°F to 140°F)</li> </ul> </li> <li>Non-operating—With a maximum temperature gradation of 15°C (59°F) per hour: <ul style="list-style-type: none"> <li>With 0.7 m/s airflow: -40°C to 85°C (-40°F to 185°F)</li> <li>Without airflow: -40°C to 85°C (-40°F to 185°F)</li> </ul> </li> </ul>
	<b>⚠   WARNING:</b> The maximum operating temperature of the Edge Gateway is 60°C (140°F). Do not exceed this maximum temperature while operating the Edge Gateway inside an enclosure. Internal heating of the Edge Gateway electronics, other electronics, and the lack of ventilation inside an enclosure can cause the operating temperature of the Edge Gateway to be greater than the outside ambient temperature. Continuous operation of the Edge Gateway at temperatures greater than 60°C (140°F) may result in an increased failure rate and a reduction of the product life. Ensure that the maximum operating temperature of the Edge Gateway when placed inside an enclosure is 60°C (140°F) or less.
Temperature range (with components)	<ul style="list-style-type: none"> <li>Operating (SD card): -40°C to 85°C (-40°F to 185°F)</li> <li>Operating (eMMC): -40°C to 85°C (-40°F to 185°F)</li> </ul>
Maximum relative humidity (non-condensing)	<ul style="list-style-type: none"> <li>Operating: 10% to 90%—With a maximum temperature gradation of 15°C (59°F) per hour</li> <li>Non-operating: 5% to 95%—With a maximum temperature gradation of 20°C (68°F) per hour</li> </ul>
Pollution degree	2
<b>①   NOTE:</b> The ambient temperature is based on the free-air environment, system mounting, and certain workload assumptions.	
<b>①   NOTE:</b> An open space of 63.50 mm (2.50 in) is recommended around the Edge Gateway for optimal air circulation.	
<b>①   NOTE:</b> The maximum operating temperature may vary, depending on factors such as air flow, system mounting, software applications, and so on.	
<b>①   NOTE:</b> The temperature at the center of the exposed base surface must not exceed 82°C (179.6°F).	
<b>①   NOTE:</b> For optimal thermal distribution when mounted, ensure that Edge Gateway is installed as instructed in the supplied documentation.	

## Power

### Power source

The Edge Gateway supports the following power sources, which are isolated to 2.5 KV:

- DC
- Power over Ethernet (PoE)

 **CAUTION:** Power off the Edge Gateway before you change the power source.

 **NOTE:** For marine applications, limit input voltage to 12-48 VDC. The cable length for rail applications must not exceed 30 meters.

 **NOTE:** You can connect either DC-IN or PoE.

 **NOTE:** USB power is limited to 0.6 A/3 W for USB 3.0 port and 0.4 A/2 W for USB 2.0 port.

**Table 7. Power consumption**

**Power consumption (applicable to power source from DC or PoE)**

Maximum power consumption	12.9 W
System idle	4.2 W
Processor full load	8.1 W
System full load	12.9 W

 **NOTE:** Operating system is active but no applications are running.

 **NOTE:** Operating system active with 100% processor utilization and 2D/3D load.

 **NOTE:** Operating system active with 100% processor utilization and simultaneous access to I/O devices.

**Table 8. DC parameters**

**DC parameters**

Supported input voltage	12/24 V vehicle power system (12 V ~ 57 V wide DC input, ISO 7637-2 & SAE J1113 compliant).
	 <b>NOTE:</b> Supports vehicle cold-crank down to 6 V.
Rated DC input for marine environments	12–48 VDC
Maximum input current	1.08 A at 12 V/0.23 A at 57 V

Minimum DC supply power requirement

## DC parameters

Power management	System power on, standby, and hibernate management through optional ignition input.
Supported wake up events	<ul style="list-style-type: none"> <li>• Alarm (real-time clock)</li> <li>• WLAN and LAN (Windows OS only)</li> <li>• USB</li> <li>• Ignition and Direct Ignition (DI)</li> </ul>
Power protection	System power protection. For example, vehicle battery protection through optional ignition input.
	<p><b>NOTE:</b> Ignition input provides an option to turn off the device or put it into a low-power mode (depending on the OS), whenever the vehicle ignition is turned off to protect from vehicle battery draining.</p>
Recommended power supply	17 W (20% derating)
	<p><b>NOTE:</b> With consideration of voltage derating under high environmental temperature.</p>

**Table 9. PoE parameters**

## PoE parameters

Compatibility	IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE 802.3af
	<p><b>NOTE:</b> Compliance with Alternative A of IEEE 802.3af standard for maximum 15.4 W, with power up to 48 V over existing Ethernet infrastructure. No modifications are required.</p>
	<p><b>NOTE:</b> Standard IEEE 802.3 Ethernet interface provided for 100BASE-TX and 10BASE-T applications (802.3, 802.3u, 802.3ab, and 802.3x) 9014-bytes jumbo frame support.</p>
Number of ports	One Fast Ethernet Media Access Control (MAC) port and one physical layer (PHY) port
Speed	10/100 Mbps (supports Wake on LAN and WLAN)
Connector	8-pin RJ45
Protection	Built-in 2.25 KV isolation protection on LAN ports and ESD IEC61000-4-2 ±30 KV
Power input	12.95 W minimum according to Alternative A of IEEE 802.3af-2003 (standard)
Supported input voltage	48 V DC
Supported input current	0.27 A

# Ignition

**Table 10. Ignition parameters**

Parameter	Minimum voltage	Maximum voltage	Default
High-level input voltage ( $V_{IH}$ )	9 V	32 V	12 V
Low-level input voltage( $V_{IL}$ )	0 V	1.2 V	0 V

## 3 V CMOS coin-cell battery

**Table 11. Coin-cell battery**

**RTC coin-cell battery (lithium-ion)**

Type	BR-2032
Manufacturer	Panasonic Corporation
Nominal voltage	3 V
Nominal capacity	200 mAh

 **NOTE:** Dell recommends that you check or replace the coin-cell battery before operation. Also, check or replace the coin-cell battery if the system has been disconnected from a power source for more than two years.

## Operating systems

The Edge Gateway supports the following operating systems:

- Windows 10 IoT Enterprise LTSB 2016
- Ubuntu Core 16
- Ubuntu Server 18.04

 **NOTE:** Windows 10 IoT Enterprise LTSB 2016 is supported only on Edge Gateway models with 32 GB eMMC.

 **NOTE:** Ubuntu Server 18.04 is supported in English language only.

## Processor

**Table 12. Processor**

Configuration	Processor	Cache	Number of Cores
Edge Gateway 3003	Intel Atom Processor E3815	512 KB L2 cache	1

## Memory

**Table 13. Memory type**

Type	DDR3L
Memory channel	Single
Minimum memory	2 GB
Maximum system memory	2 GB

## Storage

**Table 14. Storage specifications**

Storage type	Capacity supported
micro-SD	<ul style="list-style-type: none"><li>· 8 GB</li><li>· 32 GB</li><li>· 64 GB</li><li>· 128 GB</li></ul>
eMMC	<ul style="list-style-type: none"><li>· 8 GB</li><li>· 32 GB</li></ul>

 **NOTE:** Windows 10 IoT Enterprise LTSB 2016 is supported only on Edge Gateway models with 32 GB eMMC.

## Audio and video

### Audio

**Table 15. Audio specifications**

Controller	Realtek ALC3277
Line-out	3.5 mm jack - Green
Line-in	3.5 mm jack - Blue

### DisplayPort 1.1

DisplayPort 1.1 supports a maximum resolution of 2560 x 1440. It provides connection to VGA, DVI, HDMI monitor through DisplayPort to VGA adapter cable, to DVI adapter cable, and to HDMI adapter cable. It does not support daisy chain connection configurations.

**Table 16. DisplayPort specifications**

Operating temperature range	–40°C to 105°C (40°F to 221°F)
Applied voltage	40 V AC
Manufacturer part number	JYEC DP0006B-C201-20J201B <a href="http://www.jack-jyec.com">http://www.jack-jyec.com</a>

 **NOTE:** This part number is for reference only and is subjected to change.

### Graphics and video controller

**Table 17. Graphics and video controller specifications**

Controller	7 <sup>th</sup> Generation Intel HD Graphics
Speed	400 MHz

 **NOTE:** The graphics and video controller is supported only on Edge Gateway 3003.

# External ports and connectors

 **NOTE:** For more information about ports and connectors location, see the *Edge Gateway Installation and Operation Manual*.

**Table 18. Ports and connectors on Edge Gateway**

Ports	Edge Gateway 3003
RS-232/RS-485/RS-422 ports	0
Audio line-out	1
Audio line-in	1
Ethernet port one (with PoE)	1
Ethernet port two (without PoE)	1
WLAN or Bluetooth antenna connector	1
GPS antenna connector	1
Mobile broadband antenna connector (3G)	1
Mobile broadband antenna connector (4G LTE)	1
ZigBee antenna connector	0
Connector for external enclosure chassis intrusion switch (optional)	1
DisplayPort	1
GPIO	0
USB 3.0	1
USB 2.0	1
CANbus	0

 **NOTE:** The connector for wireless antenna () and GPS antenna () is the same.

# Communications

Topics:

- Wireless LAN
- Wireless WAN
- Global Navigation Satellite System (GNSS)
- Bluetooth

## Wireless LAN

**Table 19. Wireless LAN specifications**

WLAN standards supported	802.11b, 802.11g or 802.11n
802.11b data rates supported	54, 48, 36, 24, 18, 12, 9, and 6 Mbps
802.11g data rates supported	54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, and 1 Mbps
802.11n data rates supported	MCS0 to MCS7 with and without Short GI.
Encryption	WEP 64-bit and 128-bit, TKIP, AES-CCMP 128-bit

## Wireless WAN

**Table 20. Wireless WAN specifications**

Card	Region
DW5515—3G	Mexico and rest of the world
DW5815—4G LTE	AT&T (US and Canada) and Verizon (US)
DW5818—LTE, HSPA+	EMEA
DW5819—LTE, HSPA+	Asia Pacific

## DW5515 specifications

**Table 21. DW5515 card specifications**

Network	HSPA+/WCMDA
Frequency bands	<ul style="list-style-type: none"> <li>• HSPA+/WCMDA band: 1, 2, 5, 6, 8, 19</li> <li>• EDGE/GPRS frequency: 850, 900, 1800, 1900 MHz</li> </ul>
Speed—Downlink	< 21 Mbps
Speed—Uplink	< 5.76 Mbps

Fallback network	EDGE/GPRS
Fallback speed	<ul style="list-style-type: none"> <li>• Downlink: &lt; 236.8 Kbps</li> <li>• Uplink: &lt; 118.4 Kbps</li> </ul>
SIM	All

## DW5815 specifications

**Table 22. DW5815 card specifications**

Network	LTE/HSPA+
Frequency bands	<ul style="list-style-type: none"> <li>• LTE band: 2, 4, 5, 13, 17</li> <li>• HSPA+/WCMDA band: 2, 5</li> </ul>
Speed—Downlink	< 150 Mbps
Speed—Uplink	< 50 Mbps
Fallback network	HSPA+/WCDMA
Fallback speed	<ul style="list-style-type: none"> <li>• Downlink: &lt; 42 Mbps</li> <li>• Uplink: &lt; 5.76 Mbps</li> </ul>
SIM	AT&T and Verizon

## DW5818 specifications

**Table 23. DW5818 card specifications**

Network	LTE/HSPA+
Frequency bands	<ul style="list-style-type: none"> <li>• LTE FDD Band 1, 2, 3, 4, 5, 7, 8, 12, 13, 20, 25, 26, 29, 30</li> <li>• LTE TDD Band 41</li> <li>• HSPA+/WCDMA Band 1, 2, 3, 4, 5, 8</li> </ul>
Speed (Downlink)	<ul style="list-style-type: none"> <li>• LTE FDD &lt; 300 Mbps (Cat 6)</li> <li>• LTE TDD &lt; 222 Mbps</li> </ul>
Speed (Uplink)	<ul style="list-style-type: none"> <li>• LTE FDD &lt; 50 Mbps</li> <li>• LTE TDD &lt; 26 Mbps</li> </ul>
Fallback network	HSPA+/WCDMA
Fallback speed	<ul style="list-style-type: none"> <li>• Downlink: &lt; 42 Mbps</li> <li>• Uplink: &lt; 5.76 Mbps</li> </ul>
SIM	All

# DW5819 specifications

**Table 24. DW5819 card specifications**

Network	LTE/HSPA+
Frequency bands	<ul style="list-style-type: none"> <li>LTE FDD Band 1, 3, 5, 7, 8, 18, 19, 21, 28</li> <li>LTE TDD Band 38, 39, 40, 41</li> <li>HSPA+/WCDMA Band 1, 5, 6, 8, 9, 19</li> </ul>
Speed—Downlink	<ul style="list-style-type: none"> <li>LTE FDD &lt; 300 Mbps (Cat 6)</li> <li>LTE TDD &lt; 222 Mbps</li> </ul>
Speed—Uplink	<ul style="list-style-type: none"> <li>LTE FDD &lt; 50 Mbps</li> <li>LTE TDD &lt; 26 Mbps</li> </ul>
Fallback network	HSPA+/WCDMA
Fallback speed	<ul style="list-style-type: none"> <li>Downlink: &lt; 42 Mbps</li> <li>Uplink: &lt; 5.76 Mbps</li> </ul>
SIM	All

## WWAN providers and options

**NOTE:** Depending on the network coverage available, the Edge Gateway selects the most optimal configuration and automatically switches between LTE and 3G networks. Measurements from network-signaling messages between the Edge Gateway and the WWAN provider determine the switch-over process.

**Table 25. WWAN providers and options for Edge Gateway 3000 series**

WWAN card	Provider	2G bands	3G bands	LTE bands
DW5515 Sierra Wireless AirPrime HL8548	HSPA+	EDGE/GPRS frequency: 850, 900, 1800, 1900 MHz	HSPA B1, B2, B5, B6, B8, B19	Not supported
DW5815 Sierra Wireless AirPrime HL7588	AT&T (US) and Verizon (US)	Not applicable	B5 (850), B2 (1900)	B17 (700), B13 (700), B5 (850), B4 (1700), B2 (1900)
DW5818 Sierra Wireless AirPrime MC7455	LTE/HSPA+/WCDMA networks	Not applicable	HSPA+/WCDMA Band 1, 2, 3, 4, 5, 6, 7, 8, 12, 13, 20, 25, 26, 29, 30	LTE FDD Band 1, 2, 3, 4, 5, 7, 8, 18, 19, 21, 28 LTE TDD Band 41
DW5819 Sierra Wireless AirPrime MC7430	LTE/HSPA+/WCDMA networks	Not applicable	HSPA+/WCDMA Band 1, 5, 6, 8, 9, 19	LTE FDD Band 1, 3, 5, 7, 8, 18, 19, 21, 28 LTE TDD Band 38, 39, 40, 41

# Global Navigation Satellite System (GNSS)

**Table 26. GNSS specifications**

GNSS chip in Edge Gateway	Supported GNSS systems
u-blox UBX-M8030	Concurrent reception of up to three GNSS systems: GPS (Global Positioning System)/Galileo with BeiDou or GLONASS.

**Table 27. Supported GNSS constellations**

GNSS constellation	Details
GPS	Receives and tracks GPS L1 C/A signals at 1575.42 MHz.
GLONASS	Receives and tracks GLONASS L1 signals at $1602 \text{ MHz} + k*562.5 \text{ kHz}$ , where $k$ is the satellite's frequency channel number ( $k = -7, \dots, 5, 6$ ). The GLONASS satellite system is an alternative to GPS.
BeiDou	Receives and tracks BeiDou B1I signals at 1561.098 MHz. The ability to receive and track BeiDou signals with another constellation, results in higher coverage, improved reliability and better accuracy. BeiDou coverage is only available in China, with global coverage scheduled for 2020.
Galileo	Receives and tracks Galileo E1-B/C signals centered on the GPS L1 frequency band. GPS and Galileo signals can be processed with either BeiDou or GLONASS signals, enhancing coverage, reliability and accuracy.

# Bluetooth

**Table 28. Bluetooth specifications**

Bluetooth standard supported	Dual-mode Bluetooth 4.0 BLE
Bluetooth Classic	Version 2.1+EDR
Bluetooth data rates supported	Up to 3 Mbps
Bluetooth Low Energy	Yes
Encryption	128-bit

## Security

**Table 29. Security specifications**

Version	2.0 only
Manufacturer part number	Nuvoton NPCT654JBAYX
External enclosure chassis intrusion switch	When the chassis is opened, the external enclosure chassis intrusion switch raises an intruder electrical signal to the gateway, triggering an external enclosure chassis intrusion event.

 **NOTE:** Depending on your country's regulations, TPM system boards may not be available.

## Environmental compliance

**Table 30. Environmental compliance**

BFR/PVC-free	No
--------------	----

## Sensors

### Pressure sensor

**Table 31. Pressure sensor specifications**

Controller	ST Micro LPS22HB
Temperature range	-40°C to 85°C (-40°F to 185°F)

### Relative humidity and temperature sensor

**Table 32. Relative humidity and temperature sensor specifications**

Controller	ST Micro HTS221
Temperature range	-40°C to 120°C (-40°F to 248°F)
Humidity accuracy	± 3.5% rH, 20 to 80% rH
Temperature accuracy	± 0.5°C, 15 to 40°C

### Accelerometer

**Table 33. Accelerometer specifications**

Controller	ST Micro LNG2DMTR
Type	Three-axis "femto" accelerometer

## Software

The following software is supported in the Edge Gateway 3000 Series:

- Dell Command | Configure (DCC)
- Dell Command | Monitor (DCM)
- Dell Command | Powershell (DCPP)—For Windows only
- Edge Device Management (EDM)
- Support Assist (includes Dell Data Vault (DDV))

## Service and support

**Table 34. Service and support**

One year base hardware warranty, with mail-in service.	Included
Basic extensions up to five years, with mail-in service.	Available
ProSupport extensions up to five years, with advanced exchange.	Available

 **NOTE:** For a copy of our guarantees or limited warranties, write to 'Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682'. For more information, visit [www.dell.com/warranty](http://www.dell.com/warranty).

## Contacting Dell

To contact Dell for sales, technical assistance, or customer service issues:

- 1 Go to [www.dell.com/contactdell](http://www.dell.com/contactdell).
- 2 Verify your country or region in the drop-down list at the bottom of the page.
- 3 Select the appropriate service or support link based on your requirement or choose the method of contacting Dell that is convenient for you.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

 **NOTE:** If you do not have an active internet connection, you can find the contact information on your purchase invoice, packing slip, bill, or Dell product catalog.