



Access the full potential of your edge-generated data

Intel® Processor-Based Intelligent Edge Gateways

The new intelligent Dell Edge Gateways help companies connect OT/IT environments and extract value from their edge-generated data with no interruptions to their infrastructure. The EGW-3200 and EGW-5200 enable customers to collect, consolidate, and perform lightweight analyses on the vast data generated from multiple edge devices. With a rugged and fanless design, the edge gateways are compact and robust enough to endure 24/7/365 operations. They are engineered as modular designs with certified and qualified peripherals. These long-life platforms provide OEM-ready and customizable options to best fit a range of industrial needs. They are purpose-built to power real-time insights that will lead to better efficiency, lower costs, and greater performance for your business.

Actionable insights where you need them

Dell Edge Gateways bridge your legacy systems and modern sensors to the internet, enabling you to faster collect and process data at the edge, reducing response time and saving bandwidth. The latest Intel SoC processors provide you with the speed and power to run intensive workloads, especially when combined with applications that enhance automated data curation and analytics capabilities, helping you to extract actionable insights that will be valuable to your business. The new edge gateways enable you to process what is important locally, where and when speed matters.

Uninterrupted performance anywhere, anytime

Ensure that your operations and productivity keep running to boost real-time performance. Engineered with an industrial-grade form factor, these gateways can be used in multiple circumstances without compromising on energy consumption. They offer several features for reducing power usage, helping you save on your operations.

Features

- Intel Atom® and Core™ processors
- SO-DIMM for DDR4 memory
- Rich I/O: DP++, DVI, VGA, GbE, COM, USB, DI/O
- Security: TPM2.0
- Rich storage: 2.5" SATA / M.2
- Embedded expansion: Mini PCIe/uFM/M.2/USIM
- (EGW-3200) Optional sensor suite: accelerometer, humidity, pressure, temperature
- WiFi-6E/Bluetooth 5.3

Software Support

- Windows 10 IoT Enterprise LTSC 2019
- Linux Ubuntu Server 20.04 LTS
- Dell NativeEdge

Optional Accessories – Qualified and Certified

- Expansion modules (mPCIe or uFM) for Isolated COM (RS-232 or RS-422/485), GbE with PoE, GbE LAN, Canbus
- 4G and 5G modules
- AC-to-DC adapter

Features	EGW-3200	EGW-5200
Processor	Intel Atom® x6425RE	Intel® Core™ i7-9700 / i5-9500 / i3-9100 TE
TDP	12 W	35 W
# of Cores	4	8 / 6 / 4
Base Freq.	1.9 GHz	1.8 GHz / 2.2 GHz / 2.2 GHz
Max. Turbo Freq.	—	3.8 GHz / 3.6 GHz / 3.2 GHz
PCH	Elkhart Lake SoC	C246
Memory	SO-DIMM for DDR4 3200 MHz, up to 32 GB	2x DDR4 SO-DIMMs, up to 64 GB
I/O interfaces		
Display	2x DP++	2x DP++, DVI-D, VGA
Ethernet	1x 2.5 GbE, 1x GbE (1 GHz)	3x Intel GbE: 2x i210 or i225* + i219LM PHY, iAMT supported on i5 and i7 CPUs * Limited top speed of 1 GbE.
Serial Ports	COM1/2: RS-232/422/485	COM1/2: RS-232/422/485, COM3/4: RS-232
DI/O	6-ch DI and 6-ch DO	8-ch DI and 8-ch DO
USB	4x external USB 3.1 Gen1	6x external USB ports (2x USB 3.1 Gen2 + 1x USB 3.1 Gen1 + 3x USB 2.0), 1x internal USB 2.0 port
Audio	Line-out, mic-in	Line-out, mic-in
Mini PCIe	1x full size 3050	1x full size (USB 2.0+PCIe), used for WiFi by default
M.2	Socket 1: for module with A/A+E key Socket 2: for module with B/B+M key Socket 3: for module with M key	1x socket 2, key B+M or B 1x 2280/3042 (USB 3.1 + SATA 6 Gb/s + 2x PCIe)
Sensor Suite	Accelerometer, humidity, pressure, temperature	—
Wafer	1x (signal: 2x I2C, 1x USB 2.0)	—
USIM	2x nanoSIM slot	2x nanoSIM slot
Security		
TPM	TPM2.0	TPM2.0 (except for China SKU)
Storage		
Disk	1x M.2 SSD on M.2 Socket 3	2x internal 2.5" SATA
Technology	Power Loss Protection (PLP)	Power Loss Protection (PLP)
Physical		
Dimensions	162 mm (W) x 108 mm (D) x 60 mm (H)	211 mm (W) x 240 mm (D) x 86 mm (H)
Weight	Net: 1.2 kg; gross: 1.7 kg	Net: 4.7 kg; gross: 5.3 kg
Mounting	Wall mount / DIN rail supported	Desktop, operational: wall mount
Power supply		
DC Input	9–36 V (±10% tolerance)	12–24 V (±10% tolerance)
AC Input	Optional: 120 W AC-to-DC adapter	Optional: 180 W, 60 W (for PoE) AC-to-DC adapter
Environmental		
Operating temperature	–20°C to 60°C (with airflow 0.6 m/s)	0°C to 60°C (with airflow 0.6 m/s)
Storage temperature	–40°C to 85°C (excluding storage devices)	–40°C to 85°C (excluding storage devices)
Altitude	Operational (maximum, unpressurized): –15.20 m to 5,000 m Note: The maximum temperature is derated 1°C/305 m above sea level altitude	
Humidity	~95% at 40°C (non-condensing)	
Vibration	MIL-STD-810G METHOD 514.6 category 4 - common carrier (US highway truck vibration exposure)	
Shock	1. IEC 60068-2-27, half-sine pulse test parameters 2. 20G, MIL-STD-810G METHOD 516.6 Table 516.6-II, sawtooth pulse test parameters	
IP rating (dust-tight)	IP40	IP30
EMC	CE, FCC, and EN61000-6-4/-6-2	CE, FCC, and ICES
Safety	UL, CB by UL	IEC/EN/UL/CSA 63268-1