

Top Three Reasons Why the Dell Edge Gateway 5200 is a Better Choice than the HPE EL300

By: Andrew Glinka | April 2022

To enable data collection at the edge, you need to select the most pivotal piece of the puzzle - the edge gateway. Edge gateways are intelligent and powerful bridges from the physical to the digital world¹. It's where we unlock the power to enable data insights across your OT/IT environment.

While evaluating which edge gateway you should deploy within your infrastructure, it's important to keep a few things in mind. For starters, it needs to be secure, updated, validated, and versatile – especially if it's deployed in locations that aren't readily accessible. But there are other key considerations as well. Let me take you through the top three reasons why the flexible and agile Dell Edge Gateway 5200 is a better choice than the comparable HPE EL300 Gateway.

1

Handle Demanding Workloads with Mature, Powerful, and Updated Processing

When considering this investment, you need to rely on your gateway to be powerful in a small form factor. Dell's EGW 5200 is updated with a 9th Gen Intel processor that currently outperforms the HPE EL300's 8th Gen Intel dual-core processor in speed and power to run intensive workloads.² More importantly, the 5200 is engineered with the Intel C246 Desktop/Workstation Chipset to deliver workstation-level capabilities in a gateway for tackling more demanding workloads over the EL300's Q170 Mobile Chipset.³ This gives you the ability to process data closer to the edge which reduces response time and saves bandwidth. Also, activities such as AI inferencing can be performed locally, giving you the opportunity to gain quicker insights within a secure environment and provide tangible gains like enabling AI and predictive maintenance systems.

2

Obtain Insights Faster with 5G and Wi-Fi 6E

HPE's EL300 offers Wi-Fi, 4G, and LTE capabilities. However, in creating the EGW 5200, we went the extra mile by offering 5G and Wi-Fi6E capabilities⁴. The IoT modem card, the smallest of its kind, delivers ultra-high-speed 5G enhanced mobile broadband, resulting in versatility and bandwidth for high-performing IoT applications. Also, Dell's Edge Gateway 5200 comes standard with Wi-Fi 6E. What does this unlock for you that you may miss out on with HPE's solution? By using a dedicated Wi-Fi 6E spectrum, this device leverages up to seven additional channels compared to only two with legacy Wi-Fi. This will enable access to wider, exclusive channels, resulting in gigabit speeds (6 times faster than Wi-Fi 5), extremely low latency, high capacity, and dedicated backhaul channels to relieve congestion. This allows for data collection from more endpoints and network devices, all consolidated onto far fewer gateways. More time will be spent acting on insights, rather than waiting, to improve production and manufacturing or healthcare outcomes, for example, where timely insights are pivotal. Not only does Wi-Fi 6E offer untapped improvement to your environment but also flexibility, as Wi-Fi 6E enables backward capabilities

¹Dell EMC Edge Gateway 5200 Essentials: Everything You Want to Know but Were Afraid to Ask White Paper. January, 2022. [Dell EGW5200 Whitepaper](#)

for integration with legacy Wi-Fi devices to make your transition to the edge easier. Endpoints do not require 6E upgrades to benefit from the speed increase and support for more devices as both the 2.4GHz and 5.2GHz spectrum benefit from the speed improvements mentioned above. So, instead of choosing an older *adequate* capability, you may want to consider how Dell can position you at the edge for the latest tech advancements.

3

Improve Efficiency by Connecting to More Peripheral Devices

The gateway's utility can be greatly enhanced by connecting it to other devices. Dell's EGW 5200 is built with four serial ports that provide increased versatility in practically any environment. While both devices from HPE and Dell are designed to be rugged for the toughest environments, you may be limited using the HPE EL300 due to its single RS-232 port. Not only does this limit the number of receivers per connection, but strictly using the RS-232 port will limit the length of connection, by kilometers over the RS-485 for example. In use cases where gateways are in remote or inaccessible areas, this distance is quite significant. In addition, Dell offers up to 4 display outputs, 3 of which will work concurrently, enabling even more visualization potential for your workloads compared to HPE's single display port. Furthermore, the ports can be interchanged to fit workload needs.

It's evident how Dell's EGW5200 outperforms HPE's EL300 in its performance and specs, but this is only a singular piece of the puzzle that is your Edge infrastructure. Dell Technologies can further provide the edge solutions to create truly exciting and impactful transformations in our daily lives. Our customers are already leveraging edge infrastructure such as PowerEdge servers and VXRail to deliver some amazing outcomes in multiple industries – industries where edge gateways will play a huge role in OT/IT environments:

- [DuosTech](#) gained efficiency in automation safety inspections of railcars around the country.
- Dell Technologies guided [Deep North](#), a retail AI company, to power their real-time insights.
- [Mercy Ships](#) can now share patient data in real-time with doctors and nurses around the world to power life-saving techniques and offer advanced medical care.

It's important to consider how critical an edge gateway is, not only as a building block for your edge environment but also for the evolution of your company's future technology. It's the cornerstone needed to aggregate, translate, and communicate all device analytics while helping to digitally transform and innovate business practices within a data-centric-ready Edge estate. So, whether you are utilizing this device to achieve better construction, transportation, retail, or healthcare outcomes or controlling security cameras to improve manufacturing efficiency, equipping your infrastructure with Dell's Edge Gateway 5200 will prove to be a valuable, long-lasting investment. Create a compatible, complementary, dynamic ecosystem with our array of servers, new reference architecture, and advancing edge infrastructure solutions Dell continues to offer. Invest in the future with up-to-date equipment, stay versatile and agile, and trust that we will securely and supportively simplify your edge and guide you to continuous greatness.

² Based on Dell Analysis on comparison to Dell EDW5200 vs. HPE EL300. April 2022.

³ Based on Dell Analysis on comparison to Dell EDW5200 vs. HPE EL300. April 2022.

⁴ WiFi 6E compatible router required. Router requires separate purchase. WiFi 6E connectivity only available in [select countries](#). Check availability with your service provider. With default WiFi 6E, 5G configuration optional.

Keep up to date on our latest news and releases for Edge, especially [Dell's new Validated Design for Retail Edge](#). To learn more and better understand how Dell can lead you to success at the Edge, visit our [Edge Computing Solutions](#) page.

² Based on Dell Analysis on comparison to Dell EDW5200 vs. HPE EL300. April 2022.

³ Based on Dell Analysis on comparison to Dell EDW5200 vs. HPE EL300. April 2022.

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