

Intel E810XXVDA2G1P5 Datasheet



Intel E810XXVDA2G1P5 25 Gigabit Dual-Port PCIe 4.0 x8 Ethernet Network Adapter

E810XXVDA2G1P5

Intel® Ethernet 800 Series network adapters improve application efficiency and network performance with innovative and versatile capabilities. With two 25GbE SFP28 ports and key performance optimizations, the E810-XXVDA2 supports solutions across Cloud, Enterprise, and Communications.

Performance optimizations for Cloud, Enterprise, and Storage deployments

- Application Device Queues (ADQ) provides dedicated traffic queues to reduce latency and increase application throughput
- Dynamic Device Personalization enables protocol-specific traffic acceleration to improve packet processing efficiency and reduce CPU overhead
- iWARP and RoCEv2 support provides high-speed, low-latency, high-throughput connectivity for storage targets and initiators

Accelerated packet processing for Communications workloads

- Enhanced Data Plane Development Kit (DPDK) support increases packet processing speeds
- Dynamic Device Personalization enables protocol-specific traffic acceleration and reduces CPU overhead for emerging high-bandwidth workloads

- IEEE 1588 PTP v2 support enables precise clock synchronization across 5G RAN deployments

Essentials

- Product Collection: 25GbE Intel® Ethernet Network Adapter E810
- Status: Launched
- Launch Date: Q3'20
- Vertical Segment: Server
- Cable Medium: Copper
- Cabling Type: SFP28 ports - DAC, Optics, and AOC's
- Bracket Height: Low Profile and Full Height

Networking Specifications

- Port Configuration: Dual
- Data Rate Per Port: 25/10/1GbE
- Intel® Virtualization Technology for Connectivity (VT-c): Yes
- Speed & Slot Width: 16 GT/s x8 lanes
- Controller: Intel Ethernet Controller E810

Package Specifications

- System Interface Type: PCIe 4.0 (16 GT/s)

Intel® Virtualization Technology for Connectivity

- On-chip QoS and Traffic Management: Yes
- Flexible Port Partitioning: Yes
- Virtual Machine Device Queues (VMDq): Yes

- PCI-SIG* SR-IOV Capable: Yes

Advanced Technologies

- iWARP/RDMA: Yes
- RoCEv2/RDMA: Yes
- Intel® Data Direct I/O Technology: Yes
- Intelligent Offloads: Yes
- Storage Over Ethernet: iSCSI, NFS

For more information of this Intel E810XXVDA2G1P5, please visit Intel website:

<https://ark.intel.com/content/www/us/en/ark/products/189760/intel-ethernet-network-adapter-e810xxvda2.html>

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