

NIC/PCiE up to 100Gb QSFP28 x2 Bulk (E810CQDA2BLK)

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Improve application efficiency and network performance with innovative and versatile capabilities that optimize high-performance server workloads such as NFV, storage, HPC-AI and hybrid cloud. Performance for Cloud Applications. Delivers the bandwidth and increased application throughput required for demanding cloud workloads including edge services, web servers, database applications, caching servers, and storage targets. Application Device Queues (ADQ) improves application response time predictability using advanced traffic-steering technology. Dynamic Device Personalization (DDP) enhances packet classification capabilities, to deliver up to 3x throughput improvement for some cloud workloads. Supports both RDMA iWARP and RoCEv2 for high-speed, low-latency connectivity to storage targets. Provides packet classification and sorting optimizations for high-bandwidth network and communications workloads, including mobile core, 5G RAN, and network appliances. Dynamic Device Personalization (DDP) supports existing and communications-specific protocols improving packet-processing efficiency up to 3x for some Network Functions Virtualization (NFV) workloads. IEEE 1588 Precision Time Protocol (PTP) v2 enables precise clock synchronization across the 5G RAN deployments. Enhanced Data Plane Development Kit (DPDK) support increases packet-processing speeds. Versatile Port Configurations with EPCT. E810-CQDA2 adapter supports a wide range of system configurations to meet customer needs and workload requirements. The many port and speed combinations available simplify validation and deployment. Using EPCT, these adapters can be programmed to act as many different physical network adapters, with a maximum throughput of 100 Gbps.

Key Selling Points

Application Device Queues (ADQ) improves application response time predictability using advanced traffic-steering technology
Dynamic Device Personalization (DDP) enhances packet classification capabilities to deliver up to 3x throughput improvement for some cloud workloads
Supports both RDMA iWARP and RoCEv2 for high-speed, low-latency connectivity to storage targets
IEEE 1588v2 Precision Time Protocol support enables precise clock synchronization across the 5G RAN deployments
Enhanced Data Plane Development Kit (DPDK) support increases packet-processing speeds

Product Features

Advanced connectivity
The Intel Ethernet Network Adapter E810-CQDA2 offers wired connectivity technology that supports a wide range of data link protocols including 10, 25, 50, and 100 Gigabit Ethernet, ensuring versatile and high-speed network connections for demanding data environments.

Robust standards compliance
This network adapter adheres to numerous compliance standards such as BSMI, KCC, RCM, UL, and VCCI, ensuring reliability and compatibility across various regulatory frameworks, making it a reliable choice for global deployment.

High-performance features
Featuring RDMA over Converged Ethernet (RoCE) v2 and RDMA support, the adapter enhances data center efficiencies by enabling high throughput and low-latency networks, which are essential for high-performance computing applications.

Main specifications

Product Description	Intel Ethernet Network Adapter E810-CQDA2 - network adapter - PCIe 4.0 x16 - QSFP28 x 2
Device Type	Network adapter
Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 4.0 x16
PCI Specification Revision	PCIe 3.0, PCIe 4.0
Ports	QSFP28 x 2
Dimensions (WxDxH)	167 mm x 69 mm
Data Link Protocol	10GbE, 25GbE, 50GbE, 100GbE
Compliant Standards	IEEE 802.1p

Extended specification

General

Device Type	Network adapter
Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 4.0 x16
PCI Specification Revision	PCIe 3.0, PCIe 4.0

Expansion / Connectivity

Interfaces	2 x 100Gb Ethernet - QSFP28
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Networking

Ports	QSFP28 x 2
Connectivity Technology	Wired
Data Link Protocol	10 Gigabit Ethernet, 25 Gigabit Ethernet, 50 Gigabit Ethernet, 100 Gigabit Ethernet
Remote Management Protocol	SNMP, RMON
Features	RDMA support, RoCE v2, MSI-X, DSCP support
Compliant Standards	IEEE 802.1p

Miscellaneous

Included Accessories	Low-profile bracket
Compliant Standards	FCC, UL, VCCI, BSMI, RCM, KCC, Directive 2011/65/EU, RoHS

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	60 °C
Humidity Range Operating	90% (non-condensing)

Dimensions & Weight

Depth	167 mm
Height	69 mm

What's in the box

- Intel Ethernet Network Adapter E810-CQDA2
- Low-profile bracket

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