

Data Sheet

PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3

Dual-port 100 Gbit PCIe 4.0

Ethernet cards enable data exchange between all the devices connected in a local network (LAN). A networked IT infrastructure that functions well is of great significance when managing and controlling critical business processes in a company. The wide range of complex information transported across the network relies on fast and reliable data processing by the network cards.

PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3

The PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3 Server Adapter is the most flexible and scalable Ethernet adapter for the current demanding data center environments from Intel.

This adapter family addresses the demanding needs of today's generation agile data center by providing unmatched features for both server and network virtualization, flexibility for LAN networks and proven, reliable performance. The PLAN EPE810-CQDA2 2X 100G QSFP28 OCPV3 adapter delivers superior performance in a PCI Express 4.0 OCP NIC 3.0 Small Form Factor.



Features & Benefits

Main Features	Benefits
<p>Scalable performance</p> <ul style="list-style-type: none">■ Intel® E810-CQDA2 QSFP28 Dual-Port 100GbE Network Adapter in OCP NIC 3.0 Small Form Factor	<ul style="list-style-type: none">■ Cost- and energy-efficient design delivers superior performance with a theoretical throughput of 100 Gb/s (50 Gb/s Tx; 50Gb/s Rx) bidirectional throughput■ The host-based virtualization technologies supported by Intel VT include VMDq for Emulated Path: Adapter-based Queue sorting enabling efficient hypervisor-based switching■ Converging data and storage onto one fabric eliminates the need for multiple adapters, cables and switches■ Adapter-based isolation and switching for various virtual station instances enabling optimal CPU usage in virtualized environments
<p>Flexible technology options</p> <ul style="list-style-type: none">■ Server Virtualization and VMDq	
<p>Efficient networking</p> <ul style="list-style-type: none">■ A Complete, Unified Networking Solution	
<p>Connectivity</p> <ul style="list-style-type: none">■ SR-IOV for Direct Assignment	

Technical details

Technical details

Controller Silicon	Intel® Ethernet Controller E810-CAM2
Controller type	Ethernet Ctrl.
Connector type	QSFP28
Released drivers list link	http://support.ts.fujitsu.com/Download/Index.asp
Number of ports	2
Number of Connectors	2
Number of external ports	2
Data transfer rate(s)	100 Gbit/s
Auto Negotiation support	Yes
Bus interface	OCPV3
Bus transfer rate	16GT/s
Virtualization	<ul style="list-style-type: none"> - Host virtualization via VMDQ and SR-IOV - Up to 256 SR-IOV Virtual Functions - Stateless offloads for tunneled packets (network virtualization support) - Malicious VF protection - Virtual machine load balancing (VMLB) - Advanced packet filtering - VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags - VxLAN, GENEVE, NVGRE, MPLS, VxLAN-GPE with Network Service Headers (NSH) - Intel® Ethernet Adaptive Virtual Function drivers
Teaming	Depends on OS
Remote boot support	PXE
Offloading	<ul style="list-style-type: none"> - TCP Stateless Offloads (include checksum, TSO, VMDq and RSS) - TX/RX IP, SCTP, TCP & UDP checksum offload (IPv4, IPv6) capabilities - iSCSI Host Initiator - Flow Classification (Trafficking data flows across multiple consumers and connections)
Data transfer rate up to	100 Gbit/s

Order code	Product Name	Height of bracket	Number of ports	Related product
PYBLA432U	PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3	OCPV3	2	PRIMERGY Server
PY-LA432U	PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3	OCPV3	2	PRIMERGY Server

Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
PYBSFPS54	Ethernet 100 Gbit/s	QSFP28 / MMF (SWL)	up to 100m
PY-SFPS54	Ethernet 100 Gbit/s	QSFP28 / MMF (SWL)	up to 100m

Environment

Power consumption	typ. 22.8 W, max. 27.0 W
Temperature (operating)	0 - 65 °C
Storage temperature	-40 - 70 °C

Compliance

Compliance Notes	According to the corresponding system
Compliance Link	https://sp.ts.fujitsu.com/sites/certificates

Notes

Compatibility	If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.
Performance	To the extent that specific performance specifications for the product are indicated in the product data sheet, these are usually also dependent on the specific use and workload of the product and may therefore not be reached equally in all application situations. Such performance specifications thus do not represent a specifically agreed characteristic or feature of the product, but only serves as an orientation. The responsibility for a sufficient sizing of the overall system functionality lies solely with the user.

More information

Fsas Technologies products, solutions & services

In addition to PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3, Fsas Technologies provides a range of platform solutions. They combine reliable Fsas Technologies products with the best in services, know-how and worldwide partnerships.

Fsas Technologies Portfolio
Built on industry standards, Fsas Technologies offers a full portfolio of datacenter hardware, software and related services. This allows customers to select alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Data Center Solutions
<https://eu.fsastech.com/eu/>

More information

Learn more about PLAN EP E810-CQDA2 2X 100G QSFP28 OCPV3, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
<http://www.fujitsu.com/primergy>

Fsas Technologies sustainability policy

Our product portfolio is developed with a commitment to environmental responsibility. For detailed product environmental information, please visit: <https://eu.fsastech.com/eu/about-us/sustainability/>

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