FUJITSU

Data Sheet
FUJITSU 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 FUJITSU 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
Scalable performance ■ Intel® E810-CQDA2 QSFP28 Dual-Port 100GbE Network Adapter in OCP NIC 3.0 Small Form Factor	■ 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
Flexible technology options ■ Server Virtualization and VMDq	■ The host-based virtualization technologies supported by Intel VT include VMDq for Emulated Path: Adapter-based Queue sorting enabling efficient hypervisor-based switching
Efficient networking ■ A Complete, Unified Networking Solution	■ Converging data and storage onto one fabric eliminates the need for multiple adapters, cables and switches
Connectivity ■ SR-IOV for Direct Assignment	■ Adapter-based isolation and switching for various virtual station instances enabling optimal CPU usage in virtualized environments

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	- 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	- 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 ℃
Storage temperature	-40 - 70 ℃

Compliance

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

More information

Fujitsu products, solutions & services

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

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

More information

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

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

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