FUJITSU

Data Sheet
FUJITSU PLAN EP Intel® X710-DA2 2x10GbE SFP+

Dual-port 10 Gbit PCIe 3.0

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 Intel® X710-DA2 2x10GbE SFP+
The Fujitsu PLAN EP Intel X710-DA2 SFP+ Server Adapter is the most flexible and scalable Ethernet adapter for the current demanding data center environments.

The X710 adapter family addresses the demanding needs of the next-generation agile data center by providing unmatched features for both server and network virtualization, flexibility for LAN and SAN networks and proven, reliable performance. The PLAN EP Intel® X710-DA2 SFP+ delivers superior performance with a throughput 40Gb/s, in a PCI Express 3.0 slot.

Features & Benefits

Main Features	Benefits
Scalable performance ■ Intel® X710-DA2 SFP+ Dual-Port 10 GbE Controller	■ Cost-and energy-efficient design delivers superior performance with a theoretical throughput of 40 Gb/s (20 Gb/s Tx; 20Gb/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 X710-AM2
Controller type	Ethernet Ctrl.
Connector type	SFP+
Released drivers list link	http://support.ts.fujitsu.com/Download/Index.asp
Number of ports	2
Data transfer rate(s)	1 Gbit/s; 10 Gbit/s
Auto Negotiation support	Yes
Bus interface	PCIe 3.0 x8
Bus transfer rate	8GT/s
LEDs	LINK (solid) and ACTIVITY (blinking) LINK SPEED (green = 10Gbps; yellow = 1Gbps)
Network protocol and standards compatibility	IPv4, IPv6 and mixed IPv4/IPv6 network protocols IEEE 802.1p Class of Service IEEE 802.1q VLAN IEEE 802.1Qaz Enhanced Transmission Selection (ETS) IEEE 802.3ae 10Gbit Ethernet IEEE 802.3x Flow Control IEEE 802.1as Timing and Synchronization IEEE 1588 Precision Time Protocol IEEE 802.3az Energy Efficient Ethernet (EEE) SFF 8431 SFP+
Interrupt Levels	MSI-X; INTA; MSI
Virtualization	Server Virtualization - VMDq (up to 256 maximum VMDq VMs supported) - SR-IOV ready (64 virtual function per port) - VEPA: IEEE 802.1Qbg support for Virtual Ethernet Port Aggregator Network Virtualization - VXLAN, NVGRE, GENEVE - VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags
Teaming	by OS driver
Remote boot support	PXE 2.0
iSCSI support	Yes
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	10 Gbit/s

Order code	Product Name	Height of bracket	Number of ports	Related product
S26361-F3640-E202	PLAN EP X710-DA2 2x10G SFP+	Low Profile (LP)	2	PRIMERGY Server
S26361-F3640-E2	PLAN EP X710-DA2 2x10G SFP+	Full Height (FH)	2	PRIMERGY Server
S26361-F3640-L502	PLAN EP X710-DA2 2x10G SFP+	Full Height / Low Profile	2	PRIMERGY Server

Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
MC-0JXE51	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 300m
S26361-F3986-E3	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3986-L3	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3986-E4	Ethernet 10 Gbit/s	SFP+ / SMF (LWL)	LC-style / up to 10km
S26361-F3986-L4	Ethernet 10 Gbit/s	SFP+ / SMF (LWL)	LC-style / up to 10Km
S26361-F3986-E5	Ethernet 10 Gbit/s ; 1 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3986-L5	Ethernet 10 Gbit/s ; 1 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3986-E6	Ethernet 10 Gbit/s ; 1 Gbit/s	SFP+ / SMF (LWL)	LC-style / up to 10km
S26361-F3986-L6	Ethernet 10 Gbit/s ; 1 Gbit/s	SFP+ / SMF (LWL)	LC-style / up to 10km
S26361-F3989-E600	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m or 5m

Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
S26361-F3989-L102	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m
S26361-F3989-L105	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m
S26361-F3989-L110	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 10m
S26361-F3873-E500	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m or 5m
Interface Module notes	Only Fujitsu certified modules and cables are supported Order codes starting with "S26361-F3873" are Brocade branded cables, required for connections to Brocade switches		
Description optional cable	10Gbit/s transceiver module for MMF (S26361-F3986-E3 / -L3 and MC-0JXE51 / MCX0JXE51): - OM1 (Multi Mode Fiber 62.5/125µm, 200 MHz*km) up to 33m - OM2 (Multi Mode Fiber 50.0/125µm, 500 MHz*km) up to 82m - OM3 (Multi Mode Fiber 50.0/125µm, 2000 MHz*km) up to 300m - OM4 (Multi Mode Fiber 50.0/125µm, 4700 MHz*km) up to 400m 10Gbit/s transceiver module for SMF (S26361-F3986-E4 / -L4): - OS1 (Single Mode Fiber 9µm) up to 10km		

Environment

Power consumption	Dual Port 10GBase-SR typ. 4.3 W, max. 4.8 W Dual Port 10GBase-LR typ. 4.5 W, max. 5.1 W Dual Port SFP+ Twinax typ. 3.3 W, max. 3.7 W
Power consumption	
Temperature (operating)	0 - 55 °C
Storage temperature	-40 - 70 °C

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 Intel® X710-DA2 2x10GbE SFP+ , 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 Intel® X710-DA2 2x10GbE SFP+ , please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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

Copyrights

Disclaimer