

Data Sheet

FUJITSU PLAN EP Intel® X710-DA2 OCPV3 2x10GbE SFP+

Dual-port 10 Gbit OCPV3

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 OCPV3 2x10GbE SFP+

The Fujitsu PLAN EP Intel X710-DA2 OCPV3 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 OCPV3 SFP+ delivers superior performance with a throughput 40Gb/s, in an OCPV3 slot.

Features & Benefits

| Main Features | Benefits |
|--|--|
| <p>Scalable performance</p> <ul style="list-style-type: none">■ Intel® X710-DA2 OCPV3 SFP+ Dual-Port 10 GbE Controller | <ul style="list-style-type: none">■ 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 |
| <p>Flexible technology options</p> <ul style="list-style-type: none">■ Server Virtualization and VMDq | <ul style="list-style-type: none">■ The host-based virtualization technologies supported by Intel VT include VMDq for Emulated Path: Adapter-based Queue sorting enabling efficient hypervisor-based switching |
| <p>Efficient networking</p> <ul style="list-style-type: none">■ A Complete, Unified Networking Solution | <ul style="list-style-type: none">■ Converging data and storage onto one fabric eliminates the need for multiple adapters, cables and switches |
| <p>Connectivity</p> <ul style="list-style-type: none">■ SR-IOV for Direct Assignment | <ul style="list-style-type: none">■ 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 | OCPV3 |
| 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 | Yes |
| 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 |
|------------|------------------------------------|-------------------|-----------------|-----------------|
| PYBLA352U | PLAN EP X710-DA2 2X 10G SFP+ OCPV3 | OCPV3 | 2 | PRIMERGY Server |
| PY-LA352U | PLAN EP X710-DA2 2X 10G SFP+ OCPV3 | OCPV3 | 2 | PRIMERGY Server |

Supported Interface Modules / Cables

| Order code | Application | Type / mode | Connector / cable Length |
|----------------------------|--|-------------|--------------------------|
| 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. 4.29 W, max. 5.52 W Dual Port 10GBase-LR typ. 4.59 W, max. 6.23 W Dual Port Direct Attach typ. 2.86 W, max. 4.58 W |
|-------------------|--|

Power consumption

| | |
|-------------------------|-----------|
| 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 |
|-----------------|---|

More information

Fujitsu products, solutions & services

In addition to Fujitsu with PLAN EP Intel® X710-DA2 OCPV3 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 OCPV3 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>



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Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

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