

Data Sheet

FUJITSU PLAN EP Intel® XXV710-DA2 2x25/10GbE SFP28 OCP

Dual-port 25 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® XXV710-DA2 2x25/10GbE SFP28 OCP

The Fujitsu PLAN EP XXV710-DA2 SFP28 OCP V2 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 EP XXV710-DA2 SFP28 adapter delivers superior performance with a throughput 100Gb/s, in a PCI Express 3.0 OCP V2 Type 1 slot.

| Main Features | Benefits |
|--|--|
| <ul style="list-style-type: none"> ■ Intel® XXV710-DA2 SFP28 Dual-Port 25/10 GbE Network Adapter in OCP V2 Type 1 Form Factor ■ A Complete, Unified Networking Solution ■ Data, Storage, Management - DCB ■ Server Virtualization and VMDq ■ SR-IOV for Direct Assignment ■ Network Virtualization | <ul style="list-style-type: none"> ■ Industry-leading, 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, in a PCI Express v3.0 x8 OCP V2 Type 1 slot. ■ Converging data and storage onto one fabric eliminates the need for multiple adapters, cables and switches. ■ A key capability that makes all this possible is traffic class separation provided by Data Center Bridging (DCB) – providing a one-wire solution with virtual pipes for the different classes of traffic. ■ The host-based virtualization technologies supported by Intel VT include VMDq for Emulated Path: Adapter-based Queue sorting enabling efficient hyper-visor-based switching. ■ Adapter-based isolation and switching for various virtual station instances enabling optimal CPU usage in virtualized environments. ■ VXLAN, NVGRE, GENEVE, NSH Offloads. These stateless offloads preserve application performance for overlay networks. With these offloads it is possible to distribute network traffic across CPU cores. |

Technical details

Technical details

| | |
|--|--|
| Controller Silicon | Intel® XXV710-DA2 25 Gigabit Ethernet Controller |
| Controller type | Ethernet Ctrl. |
| Connector type | SFP28 |
| Operating system pre-installed | Information to released operating systems can be found in the server datasheets. Details can be found in the released drivers list on the support portal. |
| 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; 25 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 |

Technical details

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|---------------------------------|---|
| Virtualization | Server Virtualization <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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 | <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 | 10 Gbit/s |

| Order code | Product Name | Height of bracket | Number of ports | Related product |
|-------------------|---|--------------------|-----------------|-----------------|
| S26361-F4055-E302 | Intel XXV710-DA2 25GbE Dual-Port SFP28 PCIe OCP | Matching to system | 2 | PRIMERGY Server |
| S26361-F4055-L302 | Intel XXV710-DA2 25GbE Dual-Port SFP28 PCIe OCP | Matching to system | 2 | PRIMERGY Server |

Supported Interface Modules / Cables

| Order code | Application | Type / mode | Connector / cable Length |
|----------------------------|---|----------------------------|--------------------------|
| S26361-F4055-E701 | Ethernet 25 Gbit/s | MMF (SWL) | LC-style / up to 100m |
| S26361-F4055-L701 | Ethernet 25 Gbit/s | MMF (SWL) | LC-style / up to 100m |
| S26361-F4054-E701 | Ethernet 25 Gbit/s | MMF (SWL) | LC-style / up to 100m |
| S26361-F4054-L701 | Ethernet 25 Gbit/s | MMF (SWL) | LC-style / up to 100m |
| 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 |
| 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 |
| Description optional cable | 10Gbit/s transceiver module for MMF (S26361-F3986-E3 / -L3 and MC-0JXE51 / MCX0JXE51): <ul style="list-style-type: none"> - 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): <ul style="list-style-type: none"> - OS1 (Single Mode Fiber 9µm) up to 10km | | |

Environment

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|--------------------------------|------------------------|
| Power consumption | typ. 4.5 W, max. 5.1 W |
| Power consumption | |
| Temperature (operating) | 0 - 55 °C |
| Storage temperature | -40 - 70 °C |

Compliance

| | |
|-------------------------|---------------------------------------|
| Compliance notes | According to the corresponding system |
|-------------------------|---------------------------------------|

Compliance

Compliance link

<https://sp.ts.fujitsu.com/sites/certificates>

More information

Fujitsu products, solutions & services

In addition to Fujitsu with PLAN EP Intel® XXV710-DA2 2x25/10GbE SFP28 OCP, 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 Server PLAN EP Intel® XXV710-DA2 2x25/10GbE SFP28 OCP, 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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