

Data Sheet

FUJITSU PLAN EP QL41112 2X 10GBASE-T

Dual-port 10Gbit/s PCIe 3.0 Network Interface Card

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 QL41112 2X 10GBASE-T

The Fujitsu PLAN EP QL41112 2X 10GBASE-T PCIe adapter is based on Marvell's® FastLinQ™ QL41112 HLRJ Dual Port RDMA Ethernet Network Interface Adapter. This intelligent Ethernet Network adapter uses Marvell's eighth generation technology to deliver true 10Gb per second (10Gbps) Ethernet performance per port. Integrated, advanced networking eliminates I/O bottlenecks and conserves CPU cycles.

Compared to other 10GbE solutions, NPAR technology unique to this adapter provides switch-independent network partitioning. Fujitsu PLAN EP QL41112 Dual-Port 10GbE Network Interface Adapters deliver advanced Ethernet solutions designed for Fujitsu Server PRIMERGY systems with general purpose operating systems.

| Main Features | Benefits |
|---|--|
| Scalable performance <ul style="list-style-type: none"> Industry's most powerful 10G Ethernet network adapter with both iWARP and RoCE RDMA | <ul style="list-style-type: none"> Delivers full line-rate 10GbE performance across both ports. 10G/1G Autonegotiation. Boosts host CPU efficiency with hardware offloads for GRE, NVGRE, and VXLAN tunnels. NPAR is unique to this adapter and allows network partitioning |
| Flexible technology support <ul style="list-style-type: none"> Universal RDMA— iWARP and RoCE Remote Direct Memory Access | <ul style="list-style-type: none"> Delivers choice and flexibility with concurrent support for RoCE v2 and iWARP technologies; Recommended as a discrete PCIe adapter for scale-up of Fujitsu's default DynamicLoM iWARP adapter capabilities |
| Efficient networking <ul style="list-style-type: none"> Intelligent Hardware Offload Adapter with iSCSI - iBFT | <ul style="list-style-type: none"> Increase VM density and accelerate multitenant networks with full offload for tunneling protocols; iSCSI Boot will be commercially supported once the server UEFI is implemented |
| Connectivity <ul style="list-style-type: none"> NPAR and General Purpose Operating System Support | <ul style="list-style-type: none"> Enables provisioning of 10GbE ports for greater deployment flexibility through switch-independent NIC partitioning, Microsoft Windows Server, VMware ESXi, SLES, and RHEL |
| Simplified Management <ul style="list-style-type: none"> Designed for UEFI | <ul style="list-style-type: none"> Works best on UEFI (Unified Extensible Firmware Interface) PRIMERGY and PRIMEQUEST servers; Supports legacy boot as well, however Fujitsu's ServerView Update Tools and iRMC network inventory are not supported on legacy |

Technical details

Technical details

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| Controller Silicon | Marvell(R) FastLinQ(TM) QL41112 10G Dual-Port Gigabit Ethernet Controller |
| Released drivers list link | http://support.ts.fujitsu.com/Download/Index.asp |
| Number of Connectors | 2 |
| Number of external ports | 2 |
| Auto Negotiation support | Yes |
| Bus type | PCIe 3.0 |
| Bus transfer rate | 8GT/s |
| Bus width | x8 |
| Network protocol and standards compatibility | IEEE 802.1q VLAN IEEE 802.1Qaz Enhanced Transmission Selection (ETS) IEEE 802.1Qbb Priority Flow Control (PFC) IEEE 802.3x Flow Control IPv4, IPv6 and mixed IPv4/IPv6 network protocols |
| HW Virtualization | SR-IOV: up to 240 virtual functions, 120 per port, NPAR: up to 16 physical functions, 8 per port |
| Interrupt Levels | MSI-X |
| WoL | No |
| Virtualization | Server Virtualization - Windows Server 2016 Hyper-V Virtual Machine Queue (VMQ) and Virtual Machine Multi-Queue (VMMQ) - SR-IOV Network Virtualization Offload - VXLAN - NVGRE |
| Teaming | Windows Server 2016 Teaming Driver |

Technical details

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|--------------------------|---|
| Flow Control | IEEE 802.3-2012 and Ethernet flow control |
| iSCSI support | Yes |
| Additional features | Microsoft SDDC PREMIUM and STANDARD Logo Qualifiers for e.g., Storage Spaces Direct |
| Offloading | - TCP Stateless Offloads (include checksum, TSO, TSS, RSS, and RSC) - TX/RX IP, TCP & UDP checksum offload (IPv4, IPv6) capabilities |
| Data transfer rate up to | 10 Gbit/s |

Supported Interface Modules / Cables

| Order code | Application | Type / mode | Connector / cable Length |
|----------------------------|--------------------|-------------|--------------------------|
| Description optional cable | Cat6a/7 up to 100m | | |

Environment

| | |
|-------------------------|----------------------|
| Power consumption | typ. 16 W, max. 18 W |
| Temperature (operating) | 0 - 55 °C |
| Storage temperature | -40 - 65 °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 QL41112 2X 10GBASE-T, 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 PLAN EP QL41112 2X 10GBASE-T, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

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