FUJITSU

Data Sheet FUJITSU PRIMERGY 10Gb Network Controller

D2755 SFP+ dual port 10 Gbit PCIe x8

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.

The cards offer at least one Ethernet interface which is designed for the respective network types and network architectures. The bus interface links the network card with the server.

PRIMERGY 10Gb Network Controller

The new Fujitsu Ethernet D2755 Server Adapter is the most flexible and scalable Ethernet adapter for today's demanding data center environments. The Fujitsu Ethernet D2755 Server Adapter addresses the demanding needs of the nextgeneration data center by providing unmatched features for virtualization, flexibility for LAN and SAN networking, and proven, reliable performance.



Main Features	Benefits
Intel® 82599 10 Gigabit Ethernet Controller	Industry-leading, energy-efficient design for next-generation 10 Gigabit performance and multi-core processors
Low-profile PCB	Enables higher bandwidth and throughput from standard and low- profile PCIe slots and servers
Load balancing on multiple CPUs	Increases performance on multi-processor systems by efficiently balancing network loads across CPU cores when used with Receive- Side Scaling (RSS) from Microsoft or Scalable I/O on Linux
Time Sync (IEEE 1588, 802.1as)	Lets networked Ethernet equipment synchronize internal clocks according to a network master clock; endpoint can then acquire an accurate estimate of the master time by compensating for link
Intel [®] PROSet utility for Microsoft Windows Device Manager	Provides point-and-click management of individual adapters, advanced adapter features, connection teaming, and virtual local

area network (VLAN) configuration

www.fujitsu.com/primergy

Technical details

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Controller Silicon	Intel® 82599 10 Gigabit Ethernet Control	ler				
Controller type	Ethernet Ctrl.					
Connector type	SFP+					
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/Ir	http://support.ts.fujitsu.com/Download/Index.asp				
Number of ports	2					
Data transfer rate(s)	10 Gbit/s					
Bus interface	PCIe 2.0 x8					
Bus transfer rate	5GT/s					
LEDs	LINK (solid) and ACTIVITY (blinking) LINK	SPEED (green = 10G)				
Network protocol and standards compatibility	IEEE 802.1p Class of Service IEEE 802.1q VLAN IEEE 802.1Qaz Enhanced Transmission Se IEEE 802.1Qbb Priority Flow Control (PFC IEEE 802.3ad LACP IEEE 802.3ae 10Gbit Ethernet IEEE 802.1as Timing and Synchronization IEEE 802.3x Flow Control IEEE 1588 Precision Time Protocol IPv4, IPv6 and mixed IPv4/IPv6 network p)				
Interrupt Levels	MSI-X; INTA; MSI					
WoL	Yes					
WoL comment	supported in Modular LAN slot in dedeca	ted PRIMERGY server				
Virtualization	VMBL (Virtual Maschine Load Balancing)	SR-IOV ready (64 virtual function per port) VMBL (Virtual Maschine Load Balancing) VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags				
Teaming	by OS driver					
Switch fault tolerance (SFT)	Yes					
Adapter fault tolerance (AFT)	Yes					
Adaptive load balancing (ALB)	Yes					
Remote boot support	PXE 2.0					
iSCSI support	Yes					
Additional features	multiplexed management LAN supported	d in Modular LAN slot in dede	ecated PRIMERGY server	ſ		
Offloading	TX/RX IP, TCP & UDP checksum offload (IPv4, IPv6) capabilities IPv6 segmentation capability extended to new standard type					
Add on / Component name	Dual 10 Gigabit Ethernet PCIe x8					
Order code	Product Name	Height of bracket	Number of ports	Related product		
MC-0JXE41	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ lp	Low Profile (LP)	2	PRIMEQUEST Server		
MC-0JXE42	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	Full Height (FH)	2	PRIMEQUEST Server		
MCX0JXE41	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ lp	Low Profile (LP)	2	PRIMEQUEST Server		
MCX0JXE42	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	Full Height (FH)	2	PRIMEQUEST Server		
S26361-F3067-E70	Dual 10 Gigabit Ethernet PCIe x8	Full Height / Low Profile	2	CELSIUS Workstatior		
S26361-F3067-L70	Dual 10 Gigabit Ethernet PCIe x8	Full Height / Low Profile	2	CELSIUS Workstatior		
S26361-F3629-E202	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ lp	Low Profile (LP)	2	PRIMERGY Server		
S26361-F3629-E2	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	Full Height (FH)	2	PRIMERGY Server		
S26361-F3629-E702	Upgrade-Kit to 2x Gbit and 2x 10Gbit in-build	Matching to system	2	PRIMERGY Server		
S26361-F3629-L502	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	Full Height / Low Profile	2	PRIMERGY Server		

Application Ethernet 10 Gbit/s Ethernet 10 Gbit/s	Type / mode SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / SMF (LWL) SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	Connector / cable Length LC-style / up to 300m LC-style / up to 300m LC-style / up to 400m LC-style / up to 400m LC-style / up to 10km LC-style / up to 10km SFP+ / 2m or 5m SFP+ / 5m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / SMF (LWL) SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	LC-style / up to 300m LC-style / up to 400m LC-style / up to 400m LC-style / up to 10km LC-style / up to 10Km SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ / MMF (SWL) SFP+ / MMF (SWL) SFP+ / SMF (LWL) SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	LC-style / up to 400m LC-style / up to 400m LC-style / up to 10km LC-style / up to 10Km SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ / MMF (SWL) SFP+ / SMF (LWL) SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	LC-style / up to 400m LC-style / up to 10km LC-style / up to 10Km SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ / SMF (LWL) SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	LC-style / up to 10km LC-style / up to 10Km SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ / SMF (LWL) SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	LC-style / up to 10Km SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ Twinax Cable / active SFP+ Twinax Cable / active SFP+ Twinax Cable / active	SFP+ / 2m or 5m SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ Twinax Cable / active SFP+ Twinax Cable / active	SFP+ / 2m		
Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s	SFP+ Twinax Cable / active			
Ethernet 10 Gbit/s Ethernet 10 Gbit/s		SFP+ / 5m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active			
		SFP+ / 10m		
Ethorpot 10 Chit/c	SFP+ Twinax Cable / passive	SFP+ / 3m or 5m		
	SFP+ Twinax Cable / passive	SFP+ / 1m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / passive	SFP+ / 3m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / passive	SFP+ / 5m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 7m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 10m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m or 5m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 1m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m		
Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m		
Order codes starting with "S2	6361-F3873" are Brocade branded cables, re			
 OM1 (Multi Mode Fiber 62.1) OM2 (Multi Mode Fiber 50.1) OM3 (Multi Mode Fiber 50.1) OM4 (Multi Mode Fiber 50.1) 10Gbit/s transceiver module 	5/125µm, 200 MHz*km) up to 33m 0/125µm, 500 MHz*km) up to 82m 0/125µm, 2000 MHz*km) up to 300m 0/125µm, 4700 MHz*km) up to 400m for SMF (S26361-F3986-E4 / -L4):	E51 / MCX0JXE51):		
0 - 55 ℃				
-40 - 70 °C				
According to the corresponding system				
https://sp.ts.fuiitsu.com/sites	cretificates			
	Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Ethernet 10 Gbit/s Only Fujitsu certified module Order codes starting with "S2 Order codes starting with "S2 Oull (Multi Mode Fiber 50. Oull (Multi Mode Fiber 50. Oull (Single Mode Fiber 9µr Dual Port 10GBase-SR typ. 7 Dual Port SFP+ Twinax typ. 7 Oull Port SFP+ Twinax typ. 7	Ethernet 10 Gbit/sSFP+ Twinax Cable / activeEthernet 10 Gbit/sSFP+ Twinax Cable / activeOnly Fujitsu certified modules are supportedOrder codes starting with "S26361-F3873" are Brocade branded cables, requi10Gbit/s transceiver module for MMF (S26361-F3986-E3 / -L3 and MC-0JX- 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 33m- 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 400m10Gbit/s transceiver module for SMF (S26361-F3986-E4 / -L4):- OS1 (Single Mode Fiber 9µm) up to 10kmDual Port 10GBase-SR typ. 10 W, max. 10.7 WDual Port SFP+ Twinax typ. 7.9 W, max. 8.6 W		

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu with PRIMERGY 10Gb Network Controller, 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 PRIMERGY 10Gb Network Controller , please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. http://www.fujitsu.com/primergy

Fujitsu green policy innovation

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