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Data Sheet
FUJITSU LAN Adapter D3045 Server

D3045 quad port 1 Gbit PCIe x4 card

LAN Adapter D3045

Trust the network communication of the new Fujitsu Ethernet LAN adapter. The new Fujitsu D3045 Ethernet LAN Adapter, based on the Intel® 1GbE LAN Powerville I350-AM4 chip, offers four Gigabit Ethernet ports for 10/100/1000BaseT. Virtualization support and Wake-on LAN with selectable port are just some of the features from which you will benefit. Optimal support for your virtualization is provided by the support for Virtual Machine Device Queues (VMDq), Single Root I/O virtualization and sharing specification (SR-IOV). SR-IOV requires corresponding support in the system BIOS and in the operating system. PCI-SIG SR-IOV defines extensions of the PCI Express (PCIe) specification and enables PCI hardware resources to be shared with several system images or Virtual Machines.

The new functions for Energy Efficient Ethernet (EEE) are also supported; this helps to decrease the power consumption of the server itself.

Features & Benefits

Main Features	Benefits
■ Based on the Intel® 1 GbE LAN Powerville I350 -AM4 chip	■ Industry-leading, energy-efficient design for next-generation 1 Gigabit performance and multi-core processors
■ Power Management and Savings with EEE support	■ This helps to decrease the power consumption of the server itself.
■ 10/100/1000 Mbps	■ Automatically compatible with Ethernet, Fast Ethernet, and Gigabit Ethernet networks
■ Virtualization support via VMDq and SR-IOV	■ Multi-port cards provide the platform with the port density required for virtualized environments

Technical details

Technical details

Controller type	Ethernet Ctrl.
Controller Silicon	Intel® I350-AM4 Gigabit Ethernet Controller
Controller vendor	Fujitsu
Network protocol and standards compatibility	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.1q VLAN IEEE 802.3x Flow Control IEEE 802.3ad LACP IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.1as Timing and Synchronization IEEE 1588 Precision Time Protocol IPv4, IPv6 and mixed IPv4/IPv6 network protocols DMA Coalescing (DMAC)
Number of ports	4
Data transfer rate up to	1 Gbit/s
Auto Negotiation support	Yes
Bus interface	PCIe 2.1 x4
Bus transfer rate	5GT/s
HW Virtualization	SR-IOV
Interrupt Levels	INTA INTB INTC INTD MSI MSI-X
WoL	Yes
LEDs	Link/Activity, Speed
Virtualization	VMDq and SR-IOV support
Teaming	With other Fujitsu and Intel LAN Adapters released for PRIMERGY servers
Switch fault tolerance (SFT)	Yes
Adapter fault tolerance (AFT)	Yes
Adaptive load balancing (ALB)	Yes
Flow Control	IEEE 802.3x
Remote boot support	PXE 2.0
Additional features	Jumbo Frames
Offloading	Tx/Rx IP, SCTP, TCP, and UDP checksum (IPv4, IPv6), Tx TCP segmentation (IPv4, IPv6)
iSCSI support	Yes

Environment

Temperature (operating)	0 - 60 °C
Storage temperature	-20 - 70 °C

Compliance

Compliance notes	According to the corresponding system
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

More information

Fujitsu platform solutions

In addition to Fujitsu with LAN Adapter D3045, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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More information

Learn more about Fujitsu LAN Adapter D3045, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/Primergy

Fujitsu green policy innovation

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