

ALLNET PCIe 2.5G X4 Quad Port 2.5 Gigabit Server Adapter- Copper RJ45 - ALL0145-4-2.5G-TX

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EAN CODE



Highlights:

- 4Port RJ45 2.5G Network card
- Intel I226 Chipset
- PCI-E 3.1 x4 lane 5GT/s
- Quad Port RJ45 Cooper
- 10/100/1000/2.5GBASE-T (TX) Data-Rate
- Brackets: Full-Height and Low Profile Brackets included

Intel I225 Ethernet adapter supporting Performance PCs and workstations needing bandwidth beyond 1GbE

Supporting mobile, desktop, workstation, value-server, or embedded space-constrained designs.

Key Features

- Low power, low cost
- PCIe 3.1 support (5GT/s)
- Quad-port 10/100/1000/2.5 GBASE-T(X) Copper
- Distance up to 100 meters



The Intel Ethernet Network Adapter I226-T4 is ideally suited for personal computers and workstations used for enterprise, gaming, and home networks. Based on the Intel Ethernet Controller I226, this versatile networking solution supports 2.5Gbps, 1Gbps, 100Mbps and 10Mbps network speeds without the need to overhaul existing cabling infrastructure. These systems require more bandwidth than ever before. The I226-T4 is also designed with a ventilated bracket, for increased efficiency and reduced power consumption. Packed with performance optimization capabilities, the I226-T4 includes advanced interrupt-handling features to reduce CPU overhead. Combining interrupt-handling features with intelligent filtering, ordering, and directing packets to specific queues and cores, enables load-balancing network traffic flows to improve throughput in multi-core platforms. Simplifying technology transitions with autonegotiation between port speeds provides maximum flexibility.

Features

- Compliant with PCI Express specification Revision 3.1 (5GT/s)
- MDI (Copper) standard IEEE802.3 Ethernet interface up to 2.5Gb/s
- Complies with Quad port 2.5GbE RJ45 port (copper)
- Complies with the MDI standard IEEE802.3 Ethernet interface for 2500BASE-T, 1000BASE-T, 100BASE-TX, 10BASE-TE application (IEEE802.3bz, IEEE802.3ab ,IEEE802.3u and IEEE802.3)
- IEEE802.3 Auto-negotiator
- IEEE802.3x and IEEE802.3z compliant flow control support with software-controllable RX thresholds and TX pause frames
- Automatic cross-over detection function (MDI/MDI-X)
- IEEE 1588 Protocol and 802.1AS implementation
- Supporting Time Sensitive Networking (TSN) Capabilities
- Support IEEE802.3az-Energy Efficient Ethernet (EEE)
- Full Wake-On-Lan support
- TCP/UDP, IPv4 checksum offloads (Rx/Tx)
- Transmit Segmentation offloading (TSO) (IPv4, IPv6)
- Support for packets up to 9.5KB Jumbo Frames

Essentials	
Product Collection	Intel 2.5GbE Network Adapter
Controller Processors	Intel I226
Bus Type / Bus Width	PCI Express 3.1, 5GT/s, x4 Lane
Connections	4 x RJ45 Copper



Art.-Nr.: 265513
Herst.-Nr.: ALL0145-4-2.5G-TX

Data Rate	
Supported Speeds	2500 / 1000 / 100 / 10 Mbps
Cabling Type	Supports cable lengths up to 100 meters using CAT5e, CAT6 or CAT6A.
Bracket	Full-height bracket pre-installed. Low-profile bracket included.
Dimensions	140 x 68 mm (PCIe board)
Technical Specifications	
Network Interfaces	Integrated MAC + BASE-T PHY MDI (Copper) IEEE 802.3 Ethernet interface Supports 2500BASE-T, 1000BASE-T, 100BASE-TX and 10BASE-T Compliant with IEEE 802.3, 802.3u, 802.3ab and 802.3bz
General Manageability	IEEE 802.3 Auto-Negotiation IEEE 802.3x / IEEE 802.3z Flow Control Software-controllable Rx thresholds and Tx pause frames 4 Tx and 4 Rx queues per device IPv4 / IPv6 checksum offload TCP, UDP and SCTP checksum offload
Interrupt Levels	INTA, MSI, MSI-X
System Requirements	
Operating Systems	Windows 10 / 11 64-bit, Windows Server 2019 / 2022
Expansion Slot	Available PCI Express x4, x8 or x16 slot
Environment & Certification	
Power Consumption	Max. XX W
Storage Humidity	Up to 90% non-condensing at 35°C
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Temperature	0°C to +55°C (32°F to +131°F)
LED Indicators	LINK solid / ACTIVITY blinking Green = 2.5Gbps, Yellow = 1Gbps, Off = 100Mbps or 10Mbps
Certifications	CE, FCC, RoHS