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Building Networks for People

Product Highlights
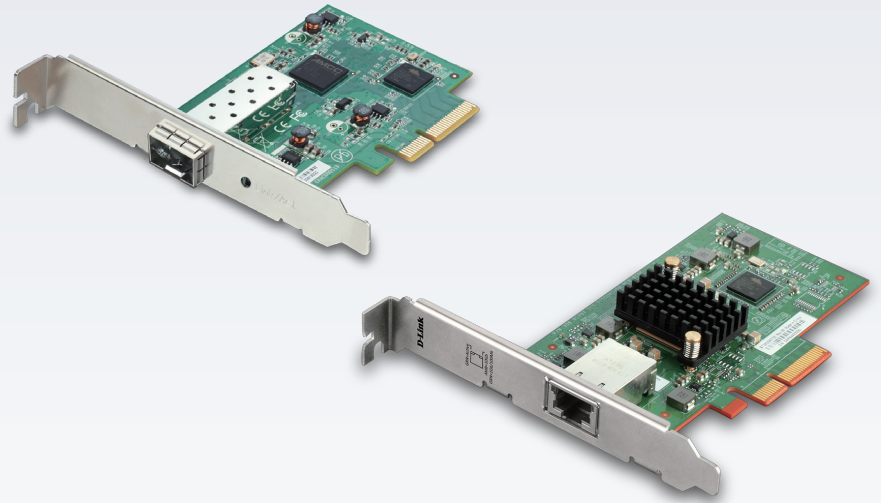
High-speed Transmission

Enjoy high-speed data transmission at rates of up to 20 Gbps in full duplex mode

Advanced Features

802.3x flow control for traffic management, 802.1Q VLAN tagging for increased security, and checksum offloading to reduce CPU processing burden

Versatile Connectivity

The option to use either SFP+ or copper port gives you flexibility of deployment

DXE-810S/DXE-810T

PCI Express 10 Gigabit Ethernet Adapter

Features

High-Performance:
- PCI Express Interface
- Auto-negotiation
- 20 Gbps full duplex throughput

Advanced Standards-based Enterprise Features:
- 802.1Q VLAN Tagging
- 802.3x Flow Control
- Jumbo Frame Support (up to 16K bytes)
- SNMP Statistics
- TCP/UDP/IP Checksum Offloading

The D-Link DXE-810S/DXE-810T PCI Express 10 Gigabit Ethernet Adapter is a high performance adapter designed for the high-speed PCI Express bus architecture. The PCI Express 10 Gigabit Ethernet Adapter offers increased bandwidth, reliability, and more functionality than standard PCI network cards. It is specifically designed to allow throughput at rates up to 20 Gbps, eliminating the bottleneck that exists with current 32 and 64-bit PCI bus architectures.

Advanced Features and Security

The card features onboard screening of 802.1Q VLAN tagged Ethernet frames, allowing you to assign multiple subnets to each server and isolate devices within each VLAN from the rest of the network for better traffic control and security. With support for advanced features such as 802.3x Flow Control, Jumbo Frames, and SNMP for network management, the DXE-810S/DXE-810T can easily interoperate with your current networking equipment.

Checksum Offloading

The DXE-810S/DXE-810T features TCP, UDP, and IP checksum off-loading functionality, which transfers the checksum processing tasks from the computer's CPU to the network card. The DXE-810S/DXE-810T's ability to handle the checksum processing means that the CPU's processing power can be used for other tasks while still achieving 10 Gbps network speeds.

Technical Specifications

General	DXE-810S	DXE-810T
Description	• Single Port 10GbE SFP+ PCI Express Adapter	• Single Port 10GBASE-T RJ-45 PCI Express Adapter
Standards	• IEEE 802.1Q VLAN tagging • IEEE 802.3x flow control • PCI Express x4 2.0, 5 GT/s compliant	(spans both columns)
	• IEEE 802.3ae 10 Gbps Ethernet • IEEE 802.3aq 10GBASE-LRM	• IEEE 802.3an 10GBASE-T • IEEE 802.3ab 1000BASE-T • IEEE 802.3u 100BASE-TX

Transmit Distance	• Depends on transceiver	• 10GBASE-T
		  • 100M with Cat 6A or higher UTP
		  • 50M with Cat 6 UTP
		• 100/1000BASE-T
		  • 100M with Cat 5 or higher UTP

Power	• Maximum Power Consumption: 4.47 W • Input Voltage: 3.3 V and 12 V	• Maximum Power Consumption: 8.04 W • Input Voltage: 3.3 V
Data Transfer Rate	• 10 Gbps Full Duplex	• Auto mode (support 100 Mbps) • 1 Gbps Full Duplex • 10 Gbps Full Duplex
Network Operation Mode	• Full Duplex (20 Gbps)	
Interface Slot	• PCI Express x4/x8/x16 slot	
Supported Functions	• 16 KB Jumbo Frame • 802.1Q VLAN tagging	• Simple Network Management Protocol Agent

Functionality		
Driver Support	• Windows 8.1, 8, 7 • Windows Server 2008R2, 2012, and 2012R2 • Windows Hyper-V	• Linux kernel 2.6.x - 3.x.x • VMWare ESXi 4.x - 5.x
Diagnostic LED	• Link/Activity	• Speed/Link • Activity

Physical		
Dimensions	108 mm x 120 mm x 19 mm (4.25 x 4.72 x 0.74 inches)	133.3 mm x 121.9 mm x 21.6 mm (5.25 x 4.8 x 0.85 inches)
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 70 °C (-4 to 158 °F)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 10% to 90% non-condensing
Certifications	• CE • FCC	• C-Tick • BSMI (DXE-810S only)

Order Information

Part Number	Description
DXE-810S	Single Port 10GbE SFP+ PCI Express Adapter
DXE-810T	Single Port 10GBASE-T RJ-45 PCI Express Adapter

Accessories

DEM-CB100S	10-GbE SFP+ 1m Direct Attach Cable
DEM-CB300S	10-GbE SFP+ 3m Direct Attach Cable
DEM-CB700S	10-GbE SFP+ 7m Direct Attach Cable
DEM-431XT	10GBASE-SR SFP+ Transceiver (w/o DDM)
DEM-431XT-DD	10GBASE-SR SFP+ Transceiver (with DDM)
DEM-432XT	10GBASE-LR SFP+ Transceiver 10 km (w/o DDM)
DEM-432XT-DD	10GBASE-LR SFP+ Transceiver 10 km (with DDM)
DEM-433XT	10GBASE-ER SFP+ Transceiver 40 km (w/o DDM)
DEM-433XT-DD	10GBASE-ER SFP+ Transceiver 40 km (with DDM)
DEM-435XT	10GBASE-LRM SFP+ Transceiver (w/o DDM)
DEM-435XT-DD	10GBASE-LRM SFP+ Transceiver (with DDM)
DEM-436XT-BXD	10GBASE-LR BiDi SFP+ Transceiver 20 km (w/o DDM), TX: 1330 nm, RX: 1270 nm
DEM-436XT-BXU	10GBASE-LR BiDi SFP+ Transceiver 20 km (w/o DDM), TX: 1270 nm, RX: 1330 nm

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