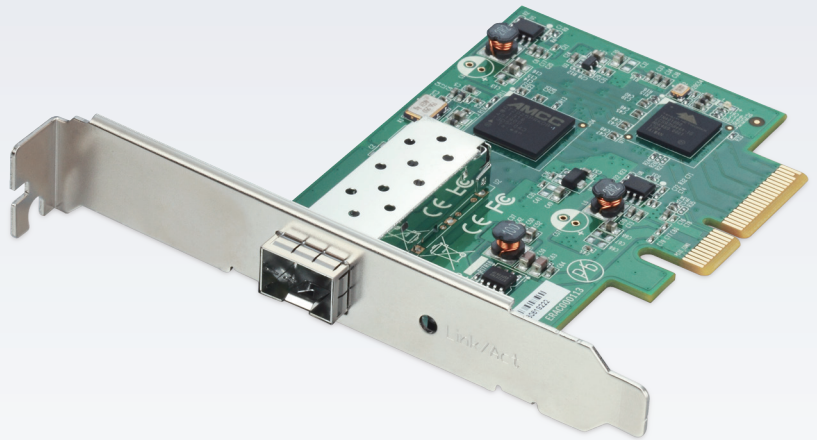## Product Highlights

High-speed Transmission

Enjoy high-speed data transmission at rates of up to 20 Gbps over fiber-optic cabling[1]

Advanced Features

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

Low Power Consumption

Maximum power consumption of just 4.48 Watts, bringing increased efficiency and power savings

DXE-810S

PCI Express 10 Gigabit Ethernet Adapter

Features

High-Performance:
- PCI Express Interface
- Auto-negotiation
- 10 Gbps 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 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, thus 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 can easily interoperate with your current networking equipment.

Checksum Offloading

The DXE-810S features TCP, UDP, and IP checksum offloading functionality, which transfers the checksum processing tasks from the computer's CPU to the network card. The DXE-810S'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

Standards	• IEEE 802.1Q VLAN tagging • IEEE 802.3x flow control • IEEE 802.3ae 10 Gbps Ethernet • IEEE 802.3aq 10GBASE-LRM	• PCI Express x4 2.0, 5 GT/s compliant

Power	• Maximum Power Consumption: 4.472 W
	  • 3.3V: 3.327 W
	  • 12V: 1.145 W
		• Input Voltage: 3.3 V and 12 V

Data Transfer Rate	• 10 Gbps	
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, 7 • Windows Server 2012 • Windows Hyper-V	• Linux kernel 2.6.x - 3.x.x • VMWare ESXi 4.x
Diagnostic LED	• Link/Activity	

Physical

Dimensions	• 108 mm x 120 mm x 19 mm (4.25 x 4.72 x 0.74 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

Order Information

Part Number	Description
DXE-810S	PCI Express 10 Gigabit Ethernet Adapter
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

[1] When connected in full duplex mode.

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