

C-PCIE3-2SFP28

25Gbs Dual Open SFP28 Port PCIe 3.0 x8 Network Interface Card w/PXE boot

Features

- PCI Express v3.0 (8.0GT/s) x8; x4, x16 Interface Standard
- IEEE 802.3by and 25G Ethernet specification compliance
- Network Virtualization offloads including VXLAN, GENEVE, NVGRE, MPLS, and VXLAN-GPE with Network Service Headers (NSH)
- Intel® Ethernet Flow Director for hardware-based application traffic steering
- Data Rate per Port: 1GbE/10GbE/25GbE
- PCIe 3.0 Bus Type
- PCIEx8 Bus Width
- Multi-Mode Fiber (MMF) or Single-Mode Fiber (SMF) Media Type
- SFP28 External Connector
- I/O virtualization innovations for maximum performance in a virtualized server
- Adaptive link establishment enables increased interoperability with other 25GbE capable switches and host controllers

Product Description

This is a 25-Gigabit Ethernet PCIe 3.0 x8 network interface card with dual open SFP28 ports that comply with IEEE 802.3 standards. It is based on an Intel XXV710 chipset and is compatible with a variety of different applications and operating systems, including Windows, Linux and Unix-like systems. Providing 10Gbs of network speed, it fully supports high-end servers and various other networking applications. In addition, this card supports high level VLAN filtering. The dual open SFP+ ports allow users to choose from a range of SFP+ transceivers to accommodate multi-mode (MMF) and single-mode (SMF) fiber, granting customizable reach. This product includes both half-height and full-height brackets and supports Preboot Execution Environment booting (PXE Boot). Our network interface cards are 100% compliant, and offer a cost effective solution for all of your network upgrade needs. With our certification test program, we guarantee your product will work right the first time.

Technical Specifications

Parameter	Specifications	
Controller	Intel® XXV710	
Transmission Medium	Fiber	
Bracket	Low-Profile Bracket and Full-Height Bracket	
Power Dissipation	Single Port 25G	8.9W
	Dual Port 25G	14W
Connector	2 x SFP28	
Interface Standard	PCI Express v3.0 (8.0GT/s) x8; x4,x16	
Data Rate Per Port	1GbE/10GbE/25GbE	
PCI Express Voltage	+12V±8%, +3.3V±8%	
Ethernet Power Management	Yes	
Rates	1/10/25GbE	
IEEE Standard / Network Topology	IEEE P802.3by 25Gbps IEEE 802.11ae 10GBase-SR, 10GBase-LR, 10GBase-ER, 10GBase-ZR IEEE 802.3aq 10GBase-LRM IEEE 802.3z 1000Base-SX, 1000Base-LX IEEE 802.1Qbg Virtual Bridging IEEE 802.1Qbb Priority Flow Control IEEE 802.1az Enhanced Transmission Selection	
PXE	Yes	
Iscsi	Yes	
FCoE	Yes	
Power Management	Yes	
SR-IOV	Yes	
IPv4, IPv6	Yes	
RSS	Yes	
Jumbo Frame	Yes	
DPDK	Yes	
NFV	Yes	
Auto-Negotiation	Yes (25G<->25G, 25G<->10G, 10G<->10G, 1G<->1G)	
Virtual Machine Device Queues (VMDq)	VXLAN, MACinUDP, NVGRE, IPinGRE	
Compatible Operating System	Windows Server 2012, Linux Kernel 2.6.30 or Greater, Windows 7 (32 and 64 bit), Windows Server 2008 R2, Windows Small Business Server 2010, Windows 8.1 (32 and 64 bit), Windows Server 2008 Final (32 and 64 bit), Windows Server 2003 Final (32 and 64 bit), Windows 8 (32 and 64 bit), Windows Server 2012 R2 (64 bit), Linux Kernel 2.4.x, 2.6.x, and 3.x, FreeBSD 7.2 or Later, Windows Vista Final (32 and 64 bit), VMware ESXi	

Environmental Specifications

Parameter	Specifications
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity	35-90% (Non-Condensing)
Certificate	FCC Class A
LED Indicators	Link Green, 25Gbps; Green Blinking, 10Gbps; Yellow Blinking, 1Gbps; Not Bright

Physical Features

Parameter	Specifications
PCB Size (mm)	159.50mm*68.76mm*1.6mm
Weight (g)	115g

About ProLabs

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 90 optical switching and transport platforms.

Complete Portfolio of Network Solutions

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 400G while providing innovative solutions that increase network efficiency. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

Trusted Partner

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day.



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