

## **ADD-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
- PCIe x8 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	Specification
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 25 Gb/s 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	Specification
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% to 90%, non-condensing
Certificate	FCC Class A
LED Indicators	Link Green, 25Gb/s: Green blinking, 10Gb/s: Yellow blinking, 1Gb/s: Not bright

## Physical Features

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

## **About AddOn Networks**

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is engrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.

## **U.S. Headquarters**

Email: [sales@addonnetworks.com](mailto:sales@addonnetworks.com)

Telephone: +1 877.292.1701

Fax: 949.266.9273

## **Europe Headquarters**

Email: [salesupportemea@addonnetworks.com](mailto:salesupportemea@addonnetworks.com)

Telephone: +44 1285 842070