



TARGET MARKETS

Myricom 10G-PCIE2-8B2-2S network adapters serve markets that need high-performance, industry-standard, 10-Gigabit Ethernet solutions and are designed for applications where low latency, high bandwidth, and low CPU overhead are required. These adapters are sold bundled with software to achieve optimum performance in specific vertical markets:

- **DBL™ for High Frequency Trading (optional)**

DBL™ software running on 10G-PCIE2-8B2-2S network adapters provides cutting-edge latencies that enable fast transaction execution with rapid time to deployment.

- **Sniffer10G™ for Cybersecurity (optional)**

10G-PCIE2-8B2-2S adapters with Sniffer10G™ software provide line rate, lossless packet sniffing and injection technology for government security applications and are incorporated into cybersecurity appliances.

- **Myri10GE for Content Creation/Post Production**

10G-PCIE2-8B2-2S adapters with the Myri10GE software dramatically increase the number of video streams, while maintaining Quality of Experience, enabling service providers to scale capacity with lower infrastructure investment and operating costs.

FEATURES

- Wire-speed performance from both network ports concurrently
- Firmware-controlled stateless offloads
- 2 million hour MTBF (500 FIT)

BENEFITS

- Increased throughput performance and low host-CPU utilization achieved with stateless offloads
- SFP+ sockets for 10GBase-SR and LR modules, as well as cost-effective Direct Attach copper* and EOE cables.

*Myricom-certified DAC cables are supported.

CSPI

CSPI, Inc. (CSPI) recently acquired Myricom, a technology leader in extreme-performance 10GbE solutions specialized for vertical markets. Myricom products deliver wire-speed UDP and TCP throughput, with optional firmware-accelerated offloads for financial trading, packet capture and injection, video streaming and IPTV, and other performance-sensitive applications.

For additional information, please visit www.myricom.com

10G-PCIE2-8B2-2S

Two-Port 10-Gigabit Ethernet Network Adapters Optimized for High Performance Applications

HOST PORT INTERFACE SPECIFICATIONS

Bus Interface

- PCI Express Gen2 (5 GT/s) x8

Optional PCI Express capabilities supported

Advanced Error Reporting, Function-Level Reset, Device Serial Number, up to 16 outstanding read requests, up to 2KB MaxPayloadSize for all packet types, MSI and MSI/X, SMBus access.

Compliance

- PCI Express Card Electromechanical Specification Rev. 2.0
- PCI Express Base Specification Rev. 2.0 at 5GT/s or 2.5 GT/s

ETHERNET SPECIFICATIONS

Throughput

- ~9.9 Gb/s with a 9KB MTU or ~9.5 Gb/s with a 1500B MTU per port

Ethernet Frame

- 1500 byte or 9000 byte MTU

Compliance

- IEEE 802.3x

Stateless offloads

- IP and TCP checksum offload, send and receive
- TSO (TCP Segmentation Offload, also known as Large Send Offload)
- LRO (Large Receive Offload)
- RSS (Receive-Side Scaling)
- Interrupt Coalescing
- Multicast filtering

MYRICOM SOFTWARE

- Myri10GE for Content Creation and high throughput video editing (included)
- Sniffer10G™ for lossless packet capture and injection at line rate in cybersecurity (optional)
- DBL™ for extremely low UDP and TCP communication latency in financial trading (optional)
- VideoPump™ for IPTV and video streaming (optional)

PHYSICAL CHARACTERISTICS

Ports

- 10G-PCIE2-8B2-2S: dual 10Gb/s Ethernet

Form Factor

- Low-profile PCI Express x8 add-in card
- 68.9mm x 167mm exclusive of the PCI faceplate
- Total thickness: 22mm
- Weight: 83.5g (0.184lb), inclusive of standard PCI faceplate

POWER

	Typical	Maximum
Direct Attach	12.8W	13.9W
SFP+ SR/LR	14.7W	16.2W

ENVIRONMENTAL SPECIFICATIONS

Temperature

- Operating: 0°C to 55°C (32°F to 131°F) up to 10,000 foot altitude with 100LFM minimum airflow
- Storage: -40°C to 70°C (-40°F to 158°F)

Humidity

- Relative humidity (non-condensing): 15% to 80% @ 50°C
- Storage: Relative humidity 90% @ 65°C

Maximum Cable Distances

- SFP+ Direct Attach cables up to 7m
- SR and LR length per IEEE specification

REGULATORY APPROVALS, COMPLIANCE

EMI and EMC (Class A)

- USA, Canada, Europe, Australia/New Zealand, Japan

Compliance

- TAA
- Reduction of Hazardous Substances (RoHS)

Laser Safety

- Class 1 when used with 10GBase-SR or 10GBase-LR SFP+ transceivers

COUNTRY OF ORIGIN

- USA

ORDERING INFORMATION/ PRODUCT CODES

10G-PCIE2-8B2-2S (dual port)

- Ships with standard-height PCI faceplate; low-profile faceplate included
- Does not include an SFP+ fiber transceiver or SFP+-terminated "Direct Attach" twinax copper cables

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