

Do you have a Myricom/CSPI datasheet for the ARC series B Adapters?

This adapter is available in the following part numbers:

- 10G-PCIE2-8B2-2S+DBL3
- 10G-PCIE2-8B2-2S+SNF3
- 10G-PCIE2-8B2-2S

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)

With DBL™ software running on 10G-PCIE2-8B2-2S network adapters, end users can expect unmatched networking performance for UDP multicast and TCP order execution, all over industry-standard 10-Gigabit Ethernet. Users can achieve extreme performance without rewriting their applications or resorting to specialty networks.

- 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 meet the critical requirements for high throughput video editing. By delivering best in class throughput performance not only for OS X but also Windows and Linux, the Content Creation networking solution is ideally suited for Non-Linear Editing of high resolution formats including 4K.

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.

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
- Does not support auto-negotiation

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

CSPi 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)

PHYSICAL CHARACTERISTICS

Ports

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

