# Myricom

# 10G-PCIE2-8C2-2T Dual-Port 10GBASE-T
# 10G-PCIE2-8C-T Single-Port 10GBASE-T
## 10-Gigabit Ethernet Network Adapters Optimized for Content Creation

## TARGET MARKETS

Myricom 10GBASE-T network adapters are designed for applications requiring low cost 10-Gigabit connectivity with wire speed performance. These adapters are sold bundled with software to achieve optimum performance in specific vertical markets:

• Myri10GE for Content Creation/Post Production
10GBASE-T 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.

• MVA™ for Industrial Imaging (optional)
10GBASE-T adapters with Myricom's MVA™ software provide a high-performance platform for GigE-Vision-enabled devices for machine vision applications including video surveillance, high-speed industrial imaging and quality control inspection within medical, semiconductor fabrication, food & beverage and automotive industries.

## FEATURES

• Wire-speed performance from both network ports concurrently

• Firmware-controlled stateless offloads

## BENEFITS

• Increased throughput performance and low host-CPU utilization achieved with stateless offloads

• Field proven Linux, Windows and Mac OS X drivers deliver best in class throughput performance

## CSPI

CSP, 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

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## 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 802.3an
- 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

## 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)
- VideoPump™ for IPTV and video streaming (optional)
- MVA™ for machine vision cameras (optional)

## PHYSICAL CHARACTERISTICS

### Ports

- 10G-PCIE2-8C-T: single 10Gb/s Ethernet
- 10G-PCIE2-8C2-2T: dual 10Gb/s Ethernet

### Form Factor

- Low-profile PCI Express x8 add-in card (ships with standard-height PCI faceplate; low-profile faceplate included)
- 68.9mm x 167mm exclusive of the faceplate
- Total thickness: 22mm
- Weight (inclusive of standard-height faceplate): 108.9g (0.24lb) for dual-port; 99.8g (0.22lb) for single-port
- Custom form factors also available

## POWER

|  | Typical |
|---|---|
| Dual-Port: | 17.6W |
| Single-Port: | 11.3W |

## ENVIRONMENTAL SPECIFICATIONS

### Temperature

- Operating: 0°C to 55°C (32°F to 131°F) up to 10,000 foot altitude with 200LFM 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

- Cat 6 cable length limit: 55m
- Cat 6a or Cat 7 cable length limit:100m

## REGULATORY APPROVALS, COMPLIANCE

### EMI and EMC (Class A)

- USA, Canada, Europe

### Compliance

- TAA
- Reduction of Hazardous Substances (RoHS)

## COUNTRY OF ORIGIN

- USA

## ORDERING INFORMATION/ PRODUCT CODES

### 10G-PCIE2-8C2-2T (dual-port)

- Ships with standard-height PCI faceplate; low-profile faceplate included

### 10G-PCIE2-8C-T (single-port)

- Ships with standard-height PCI faceplate; low-profile faceplate included

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