10 Gigabit Adapters for Red/Black Network Segmentation

Popular for transporting data between classified and unclassified networks

Features and Benefits

- Supported on Linux

- 10G Adapters with the lowest CPU overhead, best latency, and no packets dropped

A unidirectional network bridge, also referred to as a unidirectional security gateway or a data diode is a combination of hardware and software used to connect two separated networks. The sole purpose of a unidirectional network bridge is to allow data to travel only in one direction, specifically, from one network into another. They are most commonly found in high security environments where they connect two or more networks of differing security classifications. Unidirectional network bridges only allow data transfer to occur in one direction, making it physically impossible to transfer data in the opposite direction

The programmable custom network processor ASIC found on Myricom adapters allows the offering of specialized firmware that supports a transmit only (data-diode) network path. A Myricom adapter with this firmware allows for the creation of a unidirectional security gateway. For maximum security we also physically remove the receive connections on the card.
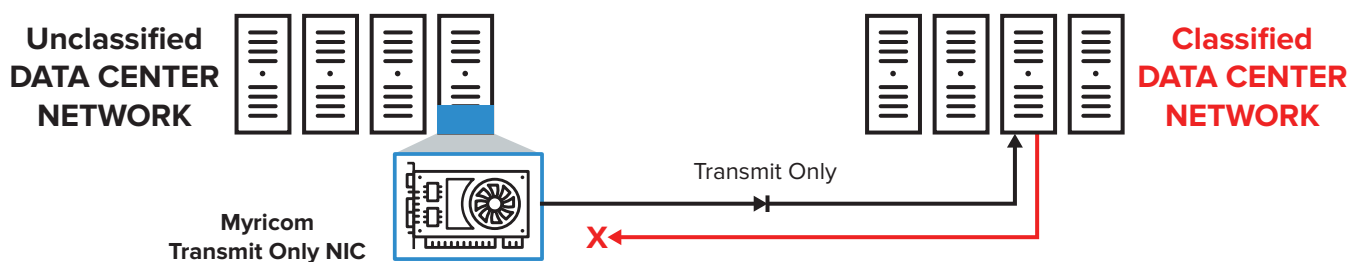
Applications providing the streaming of data unidirectionally between two networks are easily supported by this adapter card.

Myricom drivers are fast, mature, and problem free. The Linux drivers are part of most distributions and available in the Linux source tree.

**10 Gb SFP+
Transmit only**

LANai ASIC
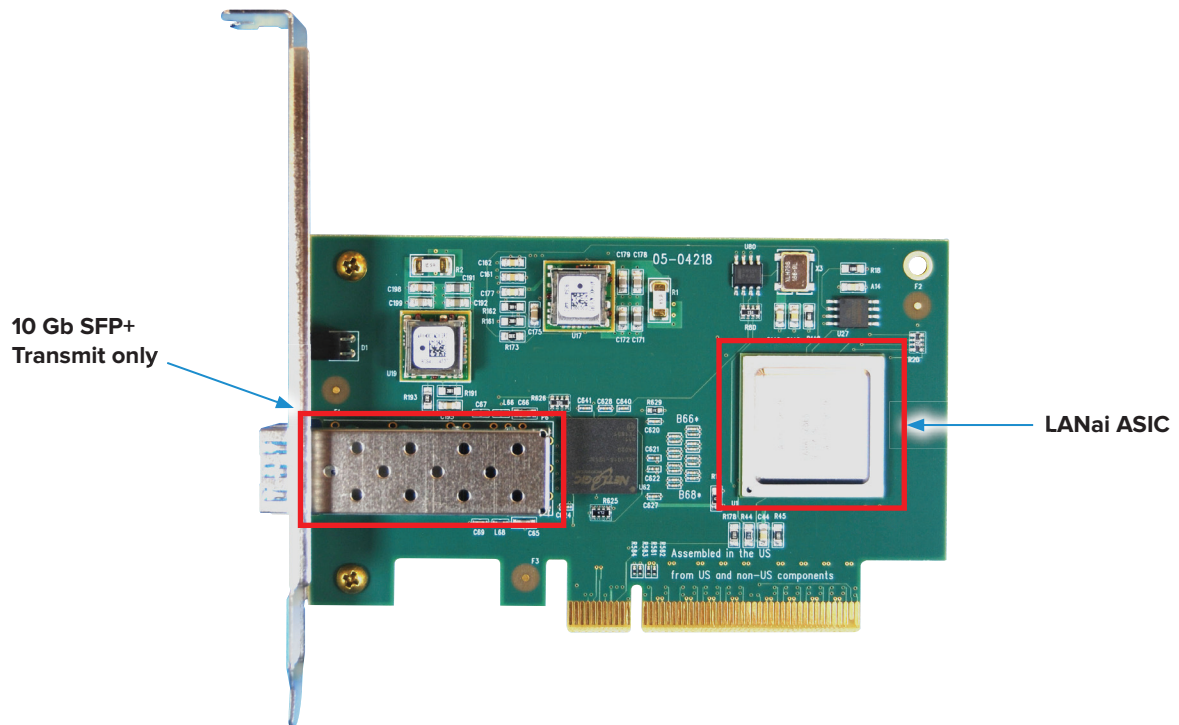
KEY SPECIFICATIONS	ARC B (TXO only)
Dimensions	2.7" x 6.6"
Bus interface	PCI Express Gen 1, 8 lanes wide
Form factor	low-profile PCI Express x8 add-in cards that ship with a standard height faceplate installed; and a low profile faceplate in the box.
Electrical power	3.9W - 11.3W, Single Port Adapters
Cooling Requirements	It is recommended that adapters be installed into servers that provide some air flow over the PCIe slots .Use in an office or computer room environment.
Cooling Options	Passive cooling / Active cooling
Operating Temperature	0-55 deg C (100 LFM min)
Storage Temperature	-40 to 70 deg C
Storage Humidity	5% to 90% non-condensing
Processor	LANai ASIC (single)
Hardware Acceleration	N/A
Memory	2 MB NOR Flash
Network Connectivity	1x10 Gb Ethernet, SFP+
Software Support	Software available for Linux (CentOS, RHEL and Ubuntu).
Security	N/A
Throughput	1x10 Gb/s
Timestamp (if applicable)	+/- 5 us accuracy

WARRANTY AND COMPLIANCE	
Warranty and add-on support	Three years for hardware defects and 90 days for software defects. 90 days of "getting started" telephone and email support as well as any software upgrades shipped within that window. Refer to the support datasheet for options extending the 90-day window.
Compliance	ETAA, RoHS (Reduction of Hazardous Substances). EMI and EMC, Class A USA, Canada, and Europe
Country of Origin	USA
ORDERING DETAILS	
10G-PCIE-8B-S-TO	Network adapter with a Single SFP+ 10GbE port that provides transmit only capability. (Firmware for Tx Only operation and Physical receive path removal)
Cables and transceivers	Contact your Account/Sales representative for more information on cables and transceivers that are compatible with this adapter.

Contact Us to Schedule a Technical Demonstration or Arrange an Evaluation ✉ **ARIAsales@ariacybersecurity.com**

ABOUT ARIA CYBERSECURITY SOLUTIONS

ARIA Cybersecurity Solutions recognizes that better, stronger, more effective cybersecurity starts with a smarter approach. Our solutions provide new ways to monitor all internal network traffic, while capturing and feeding the right data to existing security tools to improve threat detection and surgically disrupt intrusions. Customers in a range of industries rely on our solutions each and every day to accelerate incident response, automate breach detection, and protect their most critical assets and applications. With a proven track record supporting the Department of Defense and many intelligence agencies in their war on terror, and an award-winning portfolio of security solutions, ARIA Cybersecurity Solutions is committed to leading the way in cybersecurity success.

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