

# Accessories for Myricom® Network Adapters

## Transceivers and Cables

### Cables

CSPi offers a wide selection of industry-standard cables to meet the needs of your network topology, protocol and size. These Ethernet cables are available in fiber and copper as well as in many different lengths. CSPi also stocks SFP+ terminated “direct attach” copper cables (no transceivers) in a variety of lengths as a lower cost alternative to using SFP+ transceivers and optical-fiber cables.

### Transceivers

CSPi sells industry-standard SFP+ (Small Form factor Pluggable 10.3125 GBaud) and XFP optical-fiber transceivers. Some of these transceivers have Myricom labeling and some have the manufacturers’ standard labeling. All transceivers sold by CSPi have been qualified for performance and reliability when used with our Myricom adapters.

Consistent with the original SFP+/XFP multi-source agreement (MSA), these hot-pluggable transceivers have a common mechanical specification, pinout, and management interface, and connect to duplex serial fiber with “LC” connectors (SFP+) and duplex fiber with “LC” connectors (XFP).

The 10GBase-SR transceivers operate at an 850nm optical wavelength, and are designed for 50µm (50/125) multimode fiber at distances of 26-82m depending upon the fiber, or at distances up to 300m over 50µm 2000MHz-km multimode fiber.

The 10GBase-LR transceivers operate at a 1310nm optical wavelength, and are designed for 9µm (9/125) single-mode fiber up to 10km, but are commonly used up to larger distances with high-quality fiber.

### KEY FEATURES

- Industry-standard cables and transceivers qualified for performance and reliability when used with Myricom Adapters
- Transceivers are Class 1 Laser products and lead free compliant (RoHS-6)

## Hardware Specifications

### KEY SPECIFICATIONS FOR TRANSCEIVERS

Regulatory Approvals, Compliance	Both the 10GBase-SR and 10GBase-LR SFP+ transceivers are Class 1 Laser Products (no biological hazard). These devices are Reduction of Hazardous Substances (RoHS) compliant lead-free (RoHS-6).
Power	SFP+: Less than 1W typical. XFP: 1.4W typical Due to lower power and cost than XFP transceivers, SFP+ transceivers and components that use SFP+ transceivers are now preferred for 10GBase-SR and 10GBase-LR applications.
Temperature Limits	Operating: 0C to 70C case temperature. Storage: -40C to 85C
Weight	SFP+ transceivers: 20g (0.44lb). XFP transceivers: 30g (0.0666 lb).

### TRANSCEIVER PART NUMBERS

10G-SFP-SR	Optical-Fiber SFP+ transceiver for 10GBase-SR (850nm wavelength).
10G-SFP-LR	Optical-Fiber SFP+ transceiver for 10GBase-LR (1310nm wavelength)
10G-XFP-SR	Optical-Fiber XFP transceiver for 10GBase-SR (850nm wavelength)
10G-XFP-LR	Optical-Fiber XFP transceiver for 10GBase-LR (1310nm wavelength)

### LC-CONNECTORIZED DUPLEX 50/125 MULTIMODE FIBER CABLES FOR 10GBASE-SR (850nm XFP OR SFP+) SERIAL LINKS

10G-SR-1M	Multimode Fiber cable - 1 meter in length
10G-SR-3M	Multimode Fiber cable - 3 meters in length
10G-SR-5M	Multimode Fiber cable - 5 meters in length
10G-SR-10M	Multimode Fiber cable - 10 meters in length
10G-SR-25M	Multimode Fiber cable - 25 meters in length
10G-SR-LOOPBACK	Loopback test device

### SFP+ TERMINATED PASSIVE COPPER "DIRECT ATTACH" CABLES TO CONNECT BETWEEN SFP+ PORTS

10G-SFPDA-1M	Twinax, 32AWG cable - 1 meter in length
10G-SFPDA-3M	Twinax, 28AWG cable - 3 meters in length
10G-SFPDA-5M	Twinax, 24AWG cable - 5 meters in length
10G-SFPDA-7M	Twinax, 24AWG cable - 7 meters in length

Note: for cable lengths up to 7m, these copper cables are a lower cost alternative to using SFP+ transceivers and optical-fiber cables.

### 10GBASE-CX4 CABLES WITH CX4 CONNECTORS ON BOTH ENDS

10G-CX4-1M	30AWG cable - 1 meter in length
10G-CX4-3M	30AWG cable - 3 meters in length
10G-CX4-5M	30AWG cable - 5 meters in length
10G-CX4-LOOPBACK	Loopback test device

Note: These cables are used typically for connections between "-C" network adapters and CX4 ports of 10-Gigabit Ethernet switches.

### QSFP MODULES and CABLES

ADAPT-QSFP-SFP	Adapter module to convert a QSFP port into an SFP or SFP+ port
CABLE-QSFP-BRKOUT-3M	Breakout cable - 3 meters in length