

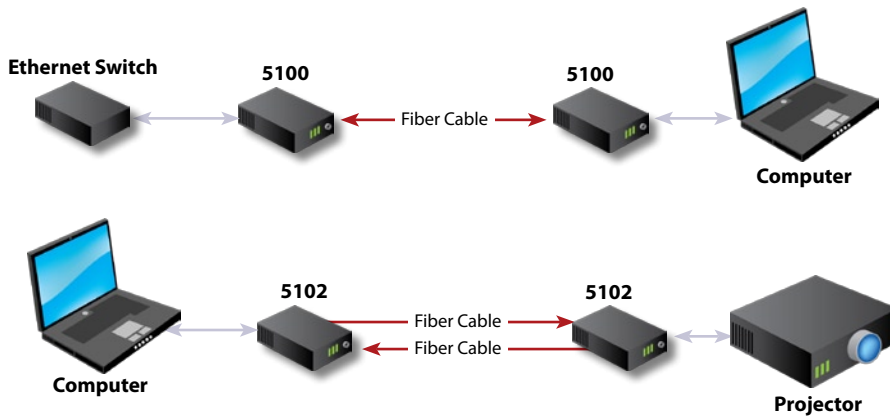


## Gigabit Ethernet Transceiver

Transport 10/100/1000-BASE ethernet over 1 or 2 single mode or multimode fibers

### Ideal Applications:

IT, Broadcast, Pro A/V and any application that requires reliable transmission of 10/100/1000 Ethernet data



### Features

- Auto-sensing 10/100/1000 Mbps Ethernet port with Auto MDIX
- IEEE 802.3, IEEE 802.3u, IEEE 802.3az, & IEEE 802.3z
- Full-duplex and half-duplex
- LEDs indicate Link Activity, SPD, Fault Detection/Collisions and Power
- Single mode & multimode versions available
- One or Two fiber versions available
- Compact design, wall mountable

### Ordering Information

Part Number	Description	Fiber Cores	1000-Base-X
5100-B7L	Single mode (1310/1490 nm)	1	BX10-U
5101-B7L	Single mode (1490/1310 nm)	1	BX10-D
5102-B7L	Single mode (1310 nm)	2	LX/LH
5102-B1L	Multimode (850 nm)	2	SX
PDPS-3-pp	Power Supply for 5100 Series		

#### Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America      AU - Australia      EU - Europe  
JP - Japan                  UK - United Kingdom

### Sales



**CSI** Communications Specialties, Inc.

631-273-0404 | [commspecial.com](http://commspecial.com)  
[info@commspecial.com](mailto:info@commspecial.com)



## Gigabit Ethernet Transceiver

Transport 10/100/1000-BASE ethernet over  
1 or 2 single mode or multimode fibers

### Transmission Distance & Loss Budgets

Part Number	1000 Base-	Fiber Cores & Type	802 Distance Spec	CSI Loss Budget	CSI Typical Distance*
5100-B7L	BX10-U	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5101-B7L	BX10-D	1 SM or MM	SM 10km	15dB min (pair)	1k MM, 10km SM
5102-B7L	LX, LH, LH10	2 SM or MM	MM 50u 550m, SM 10km	12dB min	1k MM, 10km SM
5102-B1L	SX	2 MM	MM 50u 550m, 62.5u 220m	9dB min	1k

\*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

### General Specifications

Maximum Speed (1000Base-Tx/Fx)	Full Duplex: 2000Mbps Half Duplex: 1000Mbps
Packet Forwarding Rate	14880pps@10Mbps 14880pps@100Mbps 148800pps@1000Mbps
Cabling/Maximum Distance	See chart above (longer distances on request)
Connectors	Copper: RJ-45(Auto-MDI / MDI-X) Fiber Optic: LC type
LEDs	TX: LINK/ACT, SPD, FD / COL FX: LINK/ACT, SPD, FD / COL Power
Launch Power/Receiver Sensitivity	1 Fiber SM: -8 dBm min / -23 dBm max 2 Fiber SM: -9 dBm min / -21 dBm max 2 Fiber MM: -9 dBm min / -18 dBm max
Power Requirements	Input: 100-240VAC, 50/60Hz Output: 12V/1A
Operating Temperature Range	0 to +50° Celcius
Operating and Storage Humidity	10% to 90% relative humidity (non-condensing)
Weight	2 pounds
Dimensions	4.25" x 3.14" x 1.02" (108mm x 80mm x 26mm)



### Want to learn more about fiber?

Log on to [commspecial.com](http://commspecial.com)  
for fiber related resources written  
for Pro A/V Professionals by  
Pro A/V Professionals!



Backed by a 30-day satisfaction  
guarantee and a three-year limited  
warranty on parts and labor.  
See website for terms and conditions.

### Sales



**CSI** Communications  
Specialties, Inc.

631-273-0404 | [commspecial.com](http://commspecial.com)  
[info@commspecial.com](mailto:info@commspecial.com)

UPDATED 5/15/2009

All specifications subject to change without notice. © 2009  
Fiberlink and the starburst logo are registered trademarks of  
Communications Specialties, Inc. CSI and the triangle designs  
are trademarks of Communications Specialties, Inc.

