



FiberLink® 5100A Gigabit Ethernet Transceiver



Transport 10/100/1000 Base-T Ethernet over 1 or 2 single mode or multimode fibers using SFPs

The FiberLink 5100A transmits 10/100/1000 Base-T Ethernet over one single mode or multimode fiber optic cable depending on the selected SFP. The 5100A is compatible with other fiber-based Gigabit Ethernet transceivers including the InfinityLink ILC205.

The FiberLink 5100A supports both full and half duplex modes and is ideal for IT, broadcast, and Pro A/V architectures.

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

Supports Jumbo frames to 9K Bytes

LEDs indicate Link Activity, SPD, Fault Detection/ Collisions, and Power

Single mode & multimode versions available

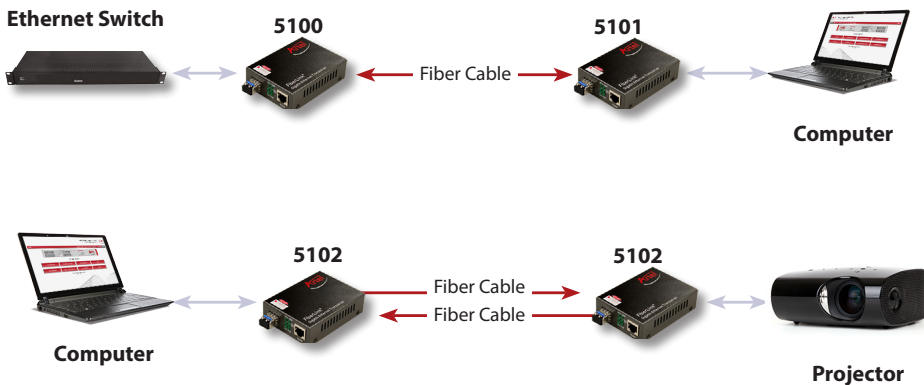
One or two fiber versions available

To 1km on Multimode

To 40km+ on Single mode*

Compact design, wall mountable

Ideal for IT, broadcast, pro A/V and any application that requires reliable transmission of 10/100/1000 Ethernet data



SPECIFICATIONS

Transmission Distance & Loss Budgets

| Part Number | SFP Part Number # | TX Wavelength | Fiber Cores & Type | Class | Artel Loss Budget | Artel Typical Distance* |
|-------------|-------------------|---------------|--------------------|-------|-------------------|-------------------------|
| 5100A-B7L | ILSC3149E1G-14 | 1310nm | 1 SM or MM | BX-U | 14dB min | 1k MM, 40km SM |
| 5101A-B7L | ILSC4931E1G-14 | 1490nm | 1 SM or MM | BX-D | 14dB min | 1k MM, 40km SM |
| 5102A-B7L | ILS1310E1G-14 | 1310nm | 2 SM or MM | EX | 14dB min | 1k MM, 10km SM |
| 5102A-B1L | ILS0850E1G-10 | 850nm | 2 MM | SX | 10dB min | 500 meters MM |

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded. SFP required, included. Other SFP combinations available.

General Specifications

| | |
|--------------------------------|--|
| Maximum Speed (1000Base-Tx/Rx) | Full Duplex: 2000Mbps Half Duplex: 1000Mbps |
| Packet Forwarding Rate | 14,880 pps@10Mbps 148,800 pps@100Mbps 1,488,000 pps@1000Mbps |
| Connectors | Copper: RJ-45(Auto-MDI / MDI-X) Fiber Optic: LC type Power: Coaxial 5.5 x 2.5 mm, center (+) |
| LEDs | Power, Full/Half Duplex, Speed 1 Gb/s, 100 Mb/s, SFP Link, RJ-45 Link |
| Power | Input: 5V @ 500ma, 2.5 watts 8.5 BTU/Hr |
| Operating Temperature Range | 0 to +50 C |
| Operating and Storage Humidity | 10% to 90% relative humidity (non-condensing) |
| Weight | 1 pound, 0.5 kg |
| Dimensions | 3.7" x 2.7" x 1" (93mm x 68mm x 25mm) |
| PDPS-USB-5V1A Power Supply | |
| Voltage | 100 – 250 VAC 50/60 Hz |
| Current | 0.2 Amps |
| Compliance | Level VI, CoC Tier 2, UL, FCC, CE |
| Mains Connection | interchangeable blades (North America, Europe, UK, Australia, China) |
| Output Connector | USB type A, 5V @ 1Amp maximum (DC Output Cable included) |



UPDATED 05/03/2018

All specifications subject to change without notice. ©2018



Schedule
Contract GS-03F-016CA

Ordering Information

| Part Number | Description |
|-------------|---|
| 5100A-B7L | Ethernet Transceiver, 1xSM/MM 1310nm, SFP, Power Supply |
| 5101A-B7L | Ethernet Transceiver, 1xSM/MM 1490nm, SFP, Power Supply |
| 5102A-B7L | Ethernet Transceiver, 2xSM/MM 1310nm, SFP, Power Supply |
| 5102A-B1L | Ethernet Transceiver, 2xMM 850nm, SFP, Power Supply |

Power Supply (included)

PDPS-USB-5V1A Universal AC-DC Power Supply for 5100A Series

Sales



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