

## 100BaseTX to 100BaseFX Media Converter



Signamax Connectivity Systems' 100BaseTX to 100BaseFX Fiber Optic Media Converters reduce cabling cost by providing flexible, non-switched fiber optic solutions for Ethernet LANs and WAN connectivity. They are also well-suited for packet sniffer applications, since these devices do no CRC filtering. Models are available for direct connection to 100BaseTX RJ-45 and 100BaseFX fiber optic Fast Ethernet devices in a choice of connector and fiber optic cable types. Each Media Converter is enclosed in a compact, strong metal case and includes an external power supply for stand-alone applications. They can also be installed without modification in the Signamax 065-1185 Rack Mount Chassis system, which features redundant power supplies for high reliability in multiple converter installations.

### KEY FEATURES

- Non-Switched Design Passes All Packets Transparently
- RJ-45 Connector with MDI-MDIX switch
- SC, ST, or SC Singlemode Models Available
- Singlemode Spans up to 20 Km
- IEEE 802.3u Compliant
- Lifetime Performance Warranty

**ORDERING INFORMATION**

| Part Number                      | Description  |
|----------------------------------|--|
| <b>Multimode Converters</b>      |  |
| 065-1100NS                       | 100TX to 100FX MM/ST, 2 km Converter                         |
| 065-1110NS                       | 100TX to 100FX MM/SC, 2 km Converter                         |
| <b>Singlemode Converter</b>      |  |
| 065-1120NS                       | 100TX to 100FX SM/SC, 20 km Converter                        |
| <b>DIN Rail Mounting Bracket</b> |  |
| 065-11DINMT                      | DIN Rail Mounts Bracket for 065-11xx Series Media Converters |

**SPECIFICATIONS**

- **APPLICABLE STANDARDS**
  - IEEE 802.3u 100BaseTX
  - IEEE 802.3u 100BaseFX
- **FIXED PORT SPECIFICATIONS**
  - 100BaseTX twisted-pair interface, Models 065-1100NS, 065-1110NS, & 065-1120NS:**  
RJ-45 connector, 100 meters maximum distance  
100BaseTX twisted pair cable interface
  - Model 065-1100NS:**  
ST connector; 2000 meters maximum distance  
100BaseFX multimode fiber optic interface
  - Model 065-1110NS:**  
SC connector; 2000 meters maximum distance  
100BaseFX multimode fiber optic interface
  - Model 065-1120NS:**  
SC connector, 20 kilometer maximum distance  
100BaseFX singlemode fiber interface
- **LED INDICATORS**
  - Per Unit:** Power (on rear panel)
  - Per Port:** LNK, RCV data, FD (100BaseTX port)
  - Six LEDs total
- **PERFORMANCE**
  - Delay:** less than 23 bit times
  - Speed:** 100BaseTX/FX: 100/200 Mbps for half/full duplex
  - Switching Method:** None
- **FIBER INTERFACE, MULTIMODE MODELS**
  - Type:** LED
  - Wavelength:** 1300 nm nominal (1270 nm maximum, 1380 nm minimum)
  - Maximum Output Power:** - 14.0 dBm
  - Minimum Output Power:** - 20.0 dBm
  - Sensitivity:** -33.0 dBm
  - Maximum Input Power:** - 8.0 dBm
  - Link Power Budget:** 13.0 dB
- **FIBER INTERFACE, SINGLEMODE PN 065-1120NS**
  - Type:** MQW Laser
  - Wavelength:** 1300 nm nominal (1260 nm maximum, 1360 nm minimum)
  - Maximum Output Power:** - 7.0 dBm
  - Minimum Output Power:** - 15.0 dBm
  - Sensitivity:** -34.0 dBm
  - Maximum Input Power:** - 7.0 dBm
  - Link Power Budget:** 19.0 dB
- **PHYSICAL CHARACTERISTICS**
  - Case dimensions:** 4.33"L x 3.19"W x 0.91"H  
(110mm x 81mm x 23mm)
  - Fiber connector protrusion varies with model.
  - Weight:** 0.35 pounds (160 grams)
- **ENVIRONMENTAL CHARACTERISTICS**
  - Operating Temperature:** 32°F ~ 122°F (0°C ~ 50°C)
  - Storage Temperature:** -4°F ~ 176°F (-20°C ~ 80°C)
  - Relative Humidity:** 10 ~ 80%, non-condensing
- **POWER**
  - External power adapter:** 12 Volts DC; 800 mA
  - Power Consumption:** 9.6 Watts Maximum
- **EMISSIONS**
  - FCC part 15 Class A, CISPR Class A, VCCI Class A, CE Mark
- **SAFETY**
  - UL Listed
- **WARRANTY**
  - Lifetime