

Fiber Optic Media Converters

Signamax Connectivity Systems' Media Converters reduce cabling cost by providing flexible fiber optic solutions for Ethernet LANs and WAN connectivity.

Models are available for direct connection to RJ-45 and fiber optic ports on both Ethernet and Fast Ethernet devices, or for use with singlemode fiber carrier demarcation points. These offer a wide variety of conversion solutions, providing network expansion and segmentation at the lowest cost possible.

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 065-1180 Rack Mount Chassis featuring redundant power supplies for high reliability and in multiple installations. The multi-functional design eliminates the need to stock separate units for the Rack Mount Chassis and for stand-alone requirements.

LED diagnostics for Power, Link, Activity, and Partition (model 065-1160 only) are included.

All Media Converters are fully compliant with the IEEE 802.3u Fast Ethernet and IEEE 802.3 Ethernet standards, as well as meeting CE and FCC Part 15 Class A standards for safety and radio frequency emissions.

KEY FEATURES

- *Auto-Detects Half / Full Duplex*
- *MDI-MDIX Switch for Twisted-Pair Port*
- *LEDs Monitor Network Status*
- *Sturdy Metal Enclosure*

- *Rack Mount or Standalone Operation*
- *FCC Class A & CE Approved*
- *Toll-Free Technical Support*
- *Lifetime Performance Warranty*



For more information or technical support call us toll-free at 800 446-2377 or visit our Web Site at www.signamax.com.

Fiber Optic Media Converter

ORDERING INFORMATION

Fiber Optic Media Converter

PART NUMBER	DESCRIPTION
065-1140	10BaseT to 10BaseFL ST Multimode
065-1150	10BaseT to 10BaseFL SC Singlemode (15 km span)
065-1130	100BaseFX SC Singlemode (15 km span) to ST Multimode
065-1130ED	100BaseFX SC Singlemode (40 km span) to ST Multimode
065-1130XLD	100BaseFX SC Singlemode (75 km span) to ST Multimode
065-1132	100BaseFX SC Singlemode (15 km span) to SC Multimode
065-1132ED	100BaseFX SC Singlemode (40 km span) to SC Multimode
065-1132XLD	100BaseFX SC Singlemode (75 km span) to SC Multimode
065-1190	ATM 155Mbps SC Singlemode (15 km span) to ST Multimode
065-1160	10BaseT to 10Base2

SPECIFICATIONS

APPLICABLE STANDARDS

Ethernet IEEE 802.3 and IEEE 802.3u Specifications
FCC Part 15 of Class A and CE Approved.

CROSSOVER SWITCH

Push button for twisted-pair MDI/MDI-X Connection

MAXIMUM SEGMENT DISTANCE

Twisted-pair interface, 065-1140, 065-1150, & 065-1160: 100 meters
Thinnet coaxial cable interface, 065-1160: 185 meters
Multimode fiber, 065-1130, 065-1130ED, 065-1130XLD, 065-1132, 065-1132ED, 065-1132XLD, 065-1140, & 065-1190:
412 meters Half Duplex and 2,000 meters Full Duplex.
Singlemode fiber, 065-1130, 065-1132, 065-1150, & 065-1190: 15 km, Full Duplex. 40 km and 75 km optional on 065-1130 and 065-1132

FIBER INTERFACE

100BaseFX, Multimode, 065-1130 and 065-1190

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

100BaseFX, Singlemode, 065-1130 and 065-1190

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

100BaseFX, Singlemode, 065-1130ED and 065-1132ED

Type: MQW Laser
Wavelength: 1300 nm nominal
(1261 nm maximum, 1360 nm minimum)
Maximum Output Power: - 5.0 dBm
Minimum Output Power: - 12.0 dBm
Sensitivity: -35.0 dBm
Maximum Input Power: - 5.0 dBm
Link Power Budget: 23.0 dB

100BaseFX, Singlemode, 065-1130XLD and 065-1132XLD

Type: MQW Laser
Wavelength: 1300 nm nominal
(1270 nm maximum, 1350 nm minimum)
Maximum Output Power: + 3.0 dBm
Minimum Output Power: - 3.0 dBm
Sensitivity: -37.0 dBm
Maximum Input Power: - 0.0 dBm
Link Power Budget: 34.0 dB

10BaseFL, Multimode, 065-1140

Type: LED
Wavelength: 820nm nominal.
Maximum Output Power: -10 dBm
Minimum Output Power: -12 dBm
Sensitivity: -32.5 dBm.
Maximum Input Power: -10 dBm
Link Power Budget: 20.5 dB

10BaseFL, Singlemode, 065-1150

Wavelength: 820nm nominal.
Maximum Output Power: -7 dBm
Minimum Output Power: -16.8 dBm
Sensitivity: -33.5 dBm.
Maximum Input Power: -7 dBm
Link Power Budget: 19.0 dB

DELAY

065-1140, 065-1150, & 065-1160: less than 23 bit times
065-1130 series, 065-1132 series, & 065-1190: less than 21 bit times

LED STATUS INDICATORS

PWR: power from the DTE
LNK: compliant device detected / unit transmitting data
RCV: data packets received
PART (model 065-1160 only): unit partitioned

CASE DIMENSIONS

Length 110 mm ~ Width 81 mm ~ Height 23 mm
4.33 inches x 3.19 inches x 0.91 inches
(Fiber connector protrusion varies with model)

PACKET RATES

Ethernet: 14,880 packets/sec
Fast Ethernet: 148,809 packets/sec

WEIGHT

150 grams (0.33 pounds)

POWER

External power adapter
12 Volts DC; 800mA

POWER CONSUMPTION

5 Watts Maximum

OPERATING TEMPERATURE

0°C ~ 40°C (32°F ~ 104°F)

STORAGE TEMPERATURE

-25°C ~ 70°C (-13°F ~ 158°F)

HUMIDITY

10 ~ 90%, non-condensing

EMISSIONS

FCC part 15 Class A, CISPR Class A,
VCCI Class A, CE Mark

SAFETY

UL Listed

INCLUDES

User Manual, External Power Supply,

International Models Available

