10/100 to 100BaseFX Power over Ethernet Fiber Media Converters

The Signamax 065-1050 series Media Converters are 10/100BaseT/TX to 100BaseFX Power over Ethernet (PoE) devices that serve as Power Sourcing Equipment (PSE), which allows the converter to provide power to IEEE 802.3af PoE standard-compliant Powered Devices (PDs) using the twisted pair connection. This AC-powered PoE Media Converter combines data received over a fiber optic link with -48 Volt DC power, which the PD can use instead of a separate power connector. The 065-1050 series converters are also equipped with PD signature-sensing, power monitoring, over-voltage protection, low voltage detection, and input fault protection features. The 065-1050 series' Link Fault Signaling (LFS) capability allows the media converter to monitor both the fiber and copper RX ports for signal loss. In case of a loss of RX signal on one media port, the converter will automatically disable the TX signal to the other media port, thus passing through the link fault. Far End Fault (FEF) capability enables the converter to stop sending link pulse to the link partner once a loss of the fiber RX signal is encountered; the link partner will then synchronously stop sending data, thereby preventing the loss of data that would occur when trying to transmit over a failed link.

The Signamax 065-1052 series Media Converters are PoE 10/100BaseT/TX to 100BaseFX Powered Devices supporting two types of media, 10/100BaseT/TX and 100BaseFX, for network connection. They are also equipped with Link Fault Signaling (LFS), to maintain link integrity and enable automatic failover when used with Spanning Tree-equipped switches.

Model 065-1050

10/100 to 100BaseFX Power over Ethernet Fiber Media Converters

PART NO.	DESCRIPTION
065-1050ST	10/100BaseT/TX to 100BaseFX PSE PoE Media Converter, Multi Mode/ST, 2 km
065-1050SC	10/100BaseT/TX to 100BaseFX PSE PoE Media Converter, Multi Mode/SC, 2 km
065-1050SM	10/100BaseT/TX to 100BaseFX PSE PoE Media Converter, Single Mode/SC, 15 km
065-1050SMED	10/100BaseT/TX to 100BaseFX PSE PoE Media Converter, Single Mode/SC, 40 km
065-1050SMXLD	10/100BaseT/TX to 100BaseFX PSE PoE Media Converter, Single Mode/SC, 75 km
065-1052ST	10/100BaseT/TX to 100BaseFX PD PoE Media Converter, Multi Mode/ST, 2 km
065-1052SC	10/100BaseT/TX to 100BaseFX PD PoE Media Converter, Multi Mode/SC, 2 km
065-1052SM	10/100BaseT/TX to 100BaseFX PD PoE Media Converter, Single Mode/SC, 15 km
065-1052SMED	10/100BaseT/TX to 100BaseFX PD PoE Media Converter, Single Mode/SC, 40 km
065-1052SMXLD	10/100BaseT/TX to 100BaseFX PD PoE Media Converter, Single Mode/SC, 75 km

SPECIFICATIONS

APPLICABLE STANDARDS
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3af Power over Ethernet (PoE)

FIXED PORTS
models 065-1050ST, 065-1050SC, 065-1050SM, 065-1050SMED, 065-1050SMXLD:
1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT
plus
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron Multi Mode fiber optic cable, 2,000 meters maximum distance (model 065-1050ST & 065-1050SC)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 15 kilometers maximum distance (model 065-1050SM)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 40 kilometers maximum distance (model 065-1050SMED)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 75 kilometers maximum distance (model 065-1050SMXLD)

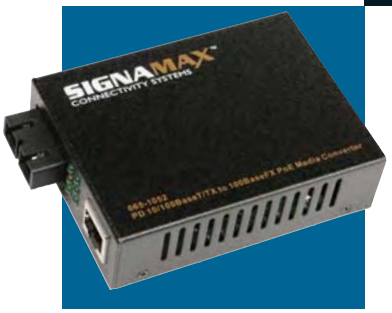
models 065-1052ST, 065-1052SC, 065-1052SM, 065-1052SMED, 065-1052SMXLD:
1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT
plus
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 52/125 micron Multi Mode fiber optic cable, 2,000 meters maximum distance (model 065-1052ST & 065-1052SC)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 15 kilometers maximum distance (model 065-1052SM)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 40 kilometers maximum distance (model 065-1052SMED)
or
1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 75 kilometers maximum distance (model 065-1052SMXLD)

PERFORMANCE
Latency: < 4.2 µs (LIFO)
Throughput @ 100Base: 148,809 pps (64-byte packets)

LEDs
models 065-1050ST, 065-1050SC, 065-1050SM, 065-1050SMED, 065-1050SMXLD:
Power, PoE, TP Link/Act, 100, FX Link/Act, FDX/COL, 4W, 7W, 15.4W, Power Bad
models 065-1052ST, 065-1052SC, 065-1052SM, 065-1052SMED, 065-1052SMXLD:
FX Link/Act, FX FDX/Col, TX Link/Act, TX 100, PSE Power Good, PSE Power Bad, Power

PHYSICAL CHARACTERISTICS
Case dimensions (L x W x H):
models 065-1050ST, 065-1050SC, 065-1050SM, 065-1050SMED, 065-1050SMXLD:
185 x 112 x 30 mm (7.28 x 4.41 x 1.18")
models 065-1052ST, 065-1052SC, 065-1052SM, 065-1052SMED, 065-1052SMXLD:
94 x 70.3 x 26.2 mm (3.70 x 2.77 x 1.03") Fiber optic interface varies with model.

SAFETY
FCC Part 15 Class A & CE Mark



Model 065-1052SC

Model 065-1052ST