

Product Specifications

12-Channel Rack Mount Converters



KEY FEATURES

- 12 media converter channels in 1U of rack space
- Media conversion between 10/100BaseT/TX and 100BaseFX or from 1000BaseT to 1000BaseSX/LX
- Dual redundant load-sharing power supplies
- Link fault signaling on all switching converters
- Built-In 10/100BaseT/TX Switch utilizes store-and-forward architecture

The Signamax 12-Channel Rack Mount Media Converter is a perfect solution for large installations that utilize many of the same type of media converters. Containing 12 channels in a standard rack mountable case only one rack unit high, this extremely high port density offers the maximum number of media converter channels per rack for enterprise-level businesses and carriers. The redundant fan-cooled power supplies ensure system uptime to enhance the investment.

This series also offers a choice of configurations, utilizing the same technology and connector types as the standalone media converters for 10/100BaseT/TX to 100BaseFX conversion. In addition, the channel rack converter can be optionally equipped with twelve channels of Gigabit Ethernet 1000BaseT to 1000BaseSX media conversion.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1200ST00	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, ST/MM, 2 km Span
065-1200SC10	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, SC/MM, 2 km Span
065-1200MT72	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, MT-RJ/MM, 2 km Span
065-1200LC74	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, LC/MM, 2 km Span
065-1200SC20	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, SC/SM, 15 km Span
065-1200SC20ED	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, SC/SM, 40 km Span
065-1200SC20XLD	12-Channel 10/100BaseT/TX to 100BaseFX Media Converter, SC/SM, 75 km Span
065-1200SC95	12-Channel 1000BaseT to 1000BaseSX Media Converter, SC/MM, 220/550 m Span
065-1200SC97	12-Channel 1000BaseT to 1000BaseLX Media Converter, SC/SM, 10 km Span
065-1200SC97ED	12-Channel 1000BaseT to 1000BaseLX Media Converter, SC/SM, 20 km Span

SPECIFICATIONS

Applicable Standards

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX/LX
IEEE 802.3x Flow Control

Ports

Switched Fast Ethernet Series:

Multimode versions: 10/100BaseT/TX to 100BaseFX, MM fiber; choice of SC, ST, LC, or MT-RJ connectors. Maximum distance: 2 km.

Singlemode versions: 10/100BaseT/TX to 100BaseFX, SC/SM. Maximum distance: up to 75 km

Gigabit Ethernet Series:

P/N 065-1200SC95: 1000BaseT to 1000BaseSX, SC/SM. Maximum distance, 1000BaseSX port: 220 m over 62.5 μ m MM fiber or 550 m over 50 μ m MM fiber (full duplex only)

P/Ns 065-1200SC97 & 065-1200SC97ED: 1000BaseT to 1000BaseLX, SC/SM. Maximum distance, 1000BaseLX port: 10 km (065-1200SC97) or 20 km (065-1200SC97ED) (full duplex only)

LED Status Indicators

Switched Fast Ethernet Series:

Per unit: Power status, Speed

Per port: Link/Activity, FDX/COL

Gigabit Ethernet Series:

Per unit: Power status, FDX/COL, TX, RX

Per port: LNKF (fiber port), LNKC (copper port)

Electrical Characteristics

AC Input: 100 - 260 V AC, 47 - 63 Hz internal universal power supply.

Above specifications apply to each power supply (2 are provided standard, in a load-sharing redundant configuration)

Performance

Switched Fast Ethernet Series:

Latency: < 4.2 μ s (LIFO)

Throughput, per port: @ 100Base: 148,809 pps (64-byte packets)

Speed: 100BaseTX: 100/200 Mbps for half/full duplex; 10BaseT: 10/20 Mbps for half/full duplex

Maximum MAC Capacity: 1K; Memory: 256 KB

Gigabit Ethernet Series:

Latency: < 4.2 μ s (LIFO)

Throughput, per port: @ 1000Base: 1,488,100 pps (64-byte packets)

Environmental Requirements

Operating Temperature: 0° to 40°C (32° to 140° F)

Storage Temperature: -25°C to 70°C (-13°F to 158°F)

Relative Humidity: 10% to 90% (non-condensing)

Physical Characteristics

Dimensions: 17.3" W x 8.0" D x 1.8" H (440 mm x 205 mm x 45 mm)

Standard 19 in rack mounting hardware included

Weight: 6.8 lb (3.1 kg)

Certifications

CE, FCC, ROHS, VCCI Class A

Warranty

Limited Lifetime

Fiber Interface

Multimode P/Ns

Type:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: LED

P/N 065-1200SC95: Laser Diode

Wavelength:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: 1300 nm nominal (1270 nm max., 1380 nm min.)

P/N 065-1200SC95: 850 nm nominal (830 nm max., 860 nm min.)

Max Output Power:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: -14.0 dBm

P/N 065-1200SC95: -4.0 dBm

Min Output Power:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: -20.0 dBm

P/N 065-1200SC95: -9.5 dBm

Sensitivity:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: -33.0 dBm

P/N 065-1200SC95: -13.5 dBm

Max Input Power:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: -8.0 dBm

P/N 065-1200SC95: -13.5 dBm

Link Power Budget:

P/Ns 065-1200ST00/1200SC10/1200MT72/1200LC74: 13.0 dB

P/N 065-1200SC95: 4.0 dB

Singlemode P/Ns

Type:

Wavelength:

P/Ns 065-1200SC20/1200SC20ED/1200SC97ED: 1300 nm nominal (1260 nm max., 1360 nm min.)

P/Ns 065-1200SC20XLD/1200SC97: 1300 nm nominal (1270 nm max., 1355 nm min.)

Max Output Power:

P/N 065-1200SC20: -7.0 dBm

P/N 065-1200SC20ED: -5.0 dBm

P/N 065-1200SC20XLD: 3.0 dBm

P/Ns 065-1200SC97/1200SC97ED: -3.0 dBm

Min Output Power:

P/N 065-1200SC20: -15.0 dBm

P/N 065-1200SC20ED: -12.0 dBm

P/N 065-1200SC20XLD: -3.0 dBm

P/N 065-1200SC97: -11.0 dBm

P/N 065-1200SC97ED: -8.0 dBm

Sensitivity:

P/N 065-1200SC20: -34.0 dBm

P/N 065-1200SC20ED: -35.0 dBm

P/N 065-1200SC20XLD: -37.0 dBm

P/Ns 065-1200SC97/1200SC97ED: -22.0 dBm

Max Input Power:

P/N 065-1200SC20: -7.0 dBm

P/N 065-1200SC20ED: -5.0 dBm

P/N 065-1200SC20XLD: 0.0 dBm

P/Ns 065-1200SC97/1200SC97ED: -3.0 dBm

Link Power Budget:

P/N 065-1200SC20: 19.0 dB

P/N 065-1200SC20ED: 23.0 dB

P/N 065-1200SC20XLD: 34.0 dB

P/N 065-1200SC97: 11.0 dB

P/N 065-1200SC97ED: 14.0 dB