

Product Specifications

10/100/1000 to 100/1000 OAM Managed Media Converters



KEY FEATURES

- One fiber interface supports dual rate 100BaseFX/BX or 1000BaseSX/LX/BX fiber transmission
- IEEE 802.3ah OAM management standard supported
- Supports SNMP v1 & v2c management
- Supports Q-in-Q double tagged frame transparent
- Supports in-band loop back and diagnostic

The Signamax 10/100/1000 to 100/1000 OAM Managed Media Converters are equipped with a 10/100/1000BaseT/TX RJ45 port and a fiber interface that supports either 1000Base or 100Base connections. Multimode and singlemode models share the same OAM feature set, so that commercial entities who utilize multimode fiber for their Local Area Networks can get the same advantages of remote fault detection and testing and controlling unnecessary dispatches as carriers using singlemode fiber for their Wide-Area Networks.

- DIP switch configuration for link fault signaling
- Gigabit transmission supports 9K bytes jumbo frames
- Full wire-speed forwarding rate
- Extended operating temperature range 23°F to 131°F (-5°C to 55°C)

These converters are designed to adhere to the IEEE 802.3ah standard for Link Monitoring, Remote Failure Indication, and Remote Loopback capabilities. Provide Local Exchange Carriers, Internet Service Providers, and large installations such as airports with media conversion solutions that can provide device information, testing, and integration with standards-based operations systems in a Fiber to the Premises (FTTP) environment.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1610OAM	10/100/1000BaseT/TX to Dual-Rate 1000SX/BX or 100FX/BX SC/MM OAM Managed Media Converter 1000SX/BX span: 220 m on 62.5 µm MM fiber/550 m on 50 µm MM fiber, 100FX/BX span: 2 km on 62.5 µm or 50 µm MM fiber
065-1610OAMED	10/100/1000BaseT/TX to Dual-Rate 1000SX/BX or 100FX/BX SC/MM OAM Managed Media Converter 1000BaseSX/BX span or 100FX/BX span: 2 km on either 62.5 µm or 50 µm MM fiber
065-1620OAM10	10/100/1000BaseT/TX to Dual-Rate 1000LX/BX or 100FX/BX SC/SM OAM Managed Media Converter 1000LX/BX span or 100FX/BX span: 10 km on SM fiber
065-1620OAM20	10/100/1000BaseT/TX to Dual-Rate 1000LX/BX or 100FX/BX SC/SM OAM Managed Media Converter 1000LX/BX span or 100FX/BX span: 20 km on SM fiber

SPECIFICATIONS

Applicable Standards

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX
IEEE 802.3z 1000BaseLX
IEEE 802.3x Flow Control
IEEE 802.3ah Operations, Administration, & Maintenance (OAM)

Ports

1 - RJ-45 10/100/1000BaseT/TX Auto-Negotiation, Auto-MDI/MDIX port, plus
1 - Dual-Rate 100BaseFX/BX or 1000BaseSX/LX/BX fiber port

LED Status Indicators

Per Unit: Power; OAM LOOP
Per Copper RJ-45 Port: Speed, FDX, Link/Activity
Per Fiber Port: Link/Activity

Performance

Latency: <4.2 μ s (LIFO).
Throughput, per port: 14,880 pps for 10 Mbps; 148,810 pps for 100 Mbps; 1,488,100 pps for 1000 Mbps (64-byte packets)
Switch Fabric Speed: 4.0 Gbps (non-blocking, wire speed performance)
MAC Address Capacity: 1K
Jumbo Frame Support: 9K packets supported

VLAN Capabilities

IEEE 802.1Q Tag-based VLAN supported; up to 4K active VLANs possible
Supports Q-in-Q Double Tagged Frame Transparent

Management

IEEE 802.3ah OAM supported.
Access Methods: Via SNMP agent and Web browser.
Software Upgrade Capability: Via TFTP
SNMP v1 and v2c Network Management supported.
Supports In-Band Loop Back and Diagnostic.

Electrical Characteristics

12 V DC. External 100 – 240 V AC 50/60 Hz. Power supply included.

Environmental Requirements

Operating Temperature: 23°F to 131°F (-5°C to 55°C);
Storage Temperature: -4°F to 158°F (-20°C to 70°C)
Relative Humidity: 5% to 95% (non-condensing)

Physical Characteristics

Dimensions: 4.8" L x 3.94" W x 1.28" H (122 mm x 100 mm x 32.5 mm)
Housing: Metal case, with built-in fiber splice tray.
Weight: 1.1 lb (0.5 kg)

Certifications

CE, FCC, ROHS, VCCI Class A

Warranty

Limited Lifetime