



Managed Single Channel 10/100Base TX-FX Media Converter

While Media Converters are considered part of the cable plant, in many cases they must be remotely managed as any other network device. In particular this is true in mission-critical, fully managed networks as well as in networks dispersed over large areas to allow efficient control and maintenance. The S.CON1M is the **only** SNMP managed **single** channel Media Converter available in the market. While vendors offer such feature for large chassis based systems only, the need for management is more intense in single channel devices, being deployed away from the main wiring closets. Out-of-band management assures independence of the control channel for enhanced system reliability.

This compact size device implements the innovative **BMD (Buffered Media Domain)** technology to provide an unconditioned network

extension over m/m fiber of 2000m (6600ft), in any network architecture (even when such includes repeaters). Its copper port is auto-sensing to provide easy migration from 10Mbps to 100Mbps transmission rates. Special attention was given to allow easy installation and maintenance: MDI-II/MDI-X switch to eliminate crossed cables, internal quality power-supply, extensive front-panel diagnostics and more. In case that more than one device must be installed in a wiring center, a special 19" shelf is available for easy and safe installation while occupying minimal rack-space. No PDV calculation need to be performed prior to implementing in a network - full performance is always guaranteed. All these features make the S.CON1M the most powerful device of its kind.

Key Features

- **SNMP** fully managed device
- **Top Performance:** maximal distances (2000m F/O, 100m STP) in any network architecture
- **Protection of Investment:** 10Base-T support for easy migration
- **Flexible installation:** desk-top or shelf-mounted
- **Easy Network Design:** no PDV calculations needed
- **Reliability:** internal quality power-supply
- **Maintainability:** extensive (7 LEDs) ALL Front-Panel diagnostics and Connectors

General Specifications

Standard Compliance

IEEE 802.3u, 100Base-TX, 10Base-T, FDSE
100Base-FX

Conversion Method

BMD (Buffered Media Domain)

10/100Base-TX port

Shielded RJ-45
Half/Full Duplex support via auto-sensing or manual setting (DIP switch)
100m over UTP/STP Cat.5 cable
Auto-Polarity correction
MDI-II/MDI-X selection
10Base-T support via auto-sensing or manual setting (DIP switch)

100Base-FX port

1310nm, multi-mode, SC connectors
Distance - 2000m (6600ft)
Half or Full Duplex (DIP switch selectable)
Output Power: -18dbm or better
Input Sensitivity: -32dbm or better
@62.5/125 μ m fiber
Single- Mode models available

Diagnostics

Full Duplex, Link, RCV - FX port
Full Duplex, Link, RCV, 100Mbps - TX port
Power

Controls

FX: FDX/HDX
TX: 10/100, FDX/HDX,
Auto-Sense enable/disable

SNMP

MIB II (RFC 1213)
Proprietary MIB extensions

Management Physical Interface

2 RJ-45 connectors (straight and crossed) for network connection (10Base-T)
miniDIN connector (RS232) for setup and diagnostics
3 status LEDs (Link, Activity, Readiness)

Management Functions

All Diagnostic functions (see above)
All Control functions (see above)
Device temperature
Alerts of device's any operational changes
System status

SNMP Compatibility

Device may be managed by terminal or by a remote manager running any popular platform such as SNMPC, HP/OV, NetView etc.
MIB available for compilation.

Environmental and Physical

Power-Supply

Internal, 100 to 240 VAC, 50-60Hz
-48VDC power supply optional

Power Consumption

10 Watts maximum

Operating Temperature

0° to +40°C (+32° to 104° F)
Humidity:10% to 90% non-condensing

Storage Temperature

-30° to +65° C (-22° to +149° F)

Safety

UL 1950:1995, EN 60950

EMC

FCC part 15, Subpart B, Class A; VCCI Class B;
ICES 003:1997, Class A; EMC Directive 89/336/EEC

Dimensions

120x170x40mm (4.7"x6.7"x1.6")

Weight

0.8 kg (1.8lb) max.

Ordering Information

S.CON1M - Managed Single Channel
10/100Base TX-FX Media Converter

S.CON/SM1 - Single Mode (25km) option for one channel

S.CON/SM1/L/L2/L3/LX - Single Mode, Long-Haul
(40/70/110/150Km) options for S.CON1M

CTF-RM - 19" rack shelf for installation of up to 3 S.CON1M devices