

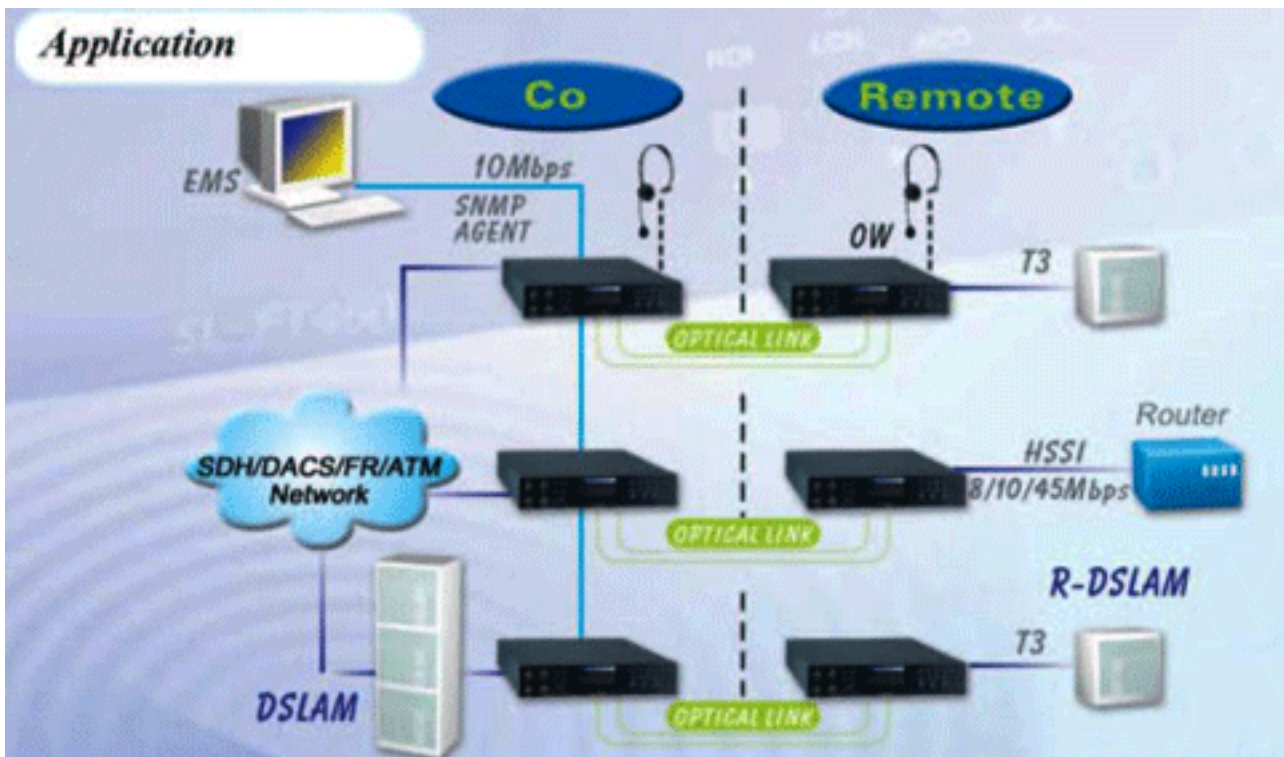


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### Description

The FOM-T3 is a transmission converter between DSX3 electrical and optical links. It is used to extend DSX3 electrical signal with optical fiber. The FOM-T3 product series with 1+1 auto-protection switch in optical link and the various MLM laser of 20 ~30dB system gain are provided based on customer applications. The FOM-T3 builds up the embedded operation channel between local and remote sides. It is very convenient for system configuration, performance and alarm monitoring of local and remote sides, and the FOM-T3 also provides BPV and PP error count for DSX3 electrical link and parity error count for optical link. The FOM-T3 can be managed through SNMP agent, including system configuration, status performance and alarm monitoring. The FOM-T3 provides local/remote loopback function for electrical and optical links. The SNMP agent, LCD front panel and VT-100 terminal of local unit can set loopback of remote unit for testing and maintenance. The embedded EOC and OW channels are also designed for system testing and maintenance. The FOM-T3 shall be a stand-alone unit, which can be either placed on a desktop or mounted in a standard 19" or 23" rack.



### Specifications

#### DSX3 Interface

Bit rate : 44.736M bps  $\pm$ 20 ppm  
Line code : B3ZX  
Impedance : 75  $\Omega$  unbalance  
Electrical interface :  
Compliant with ITU-T G.703  
Jitter transfer :  
Compliant with ITU-T G.752  
Jitter tolerance :  
Compliant with ITU-T G.824

#### HSSI Interface

Data rate : 8 or 10 or 45Mbps  
Electrical : MC10KH series ECL  
Physical : 50 pin SCSI-2 socket

#### Optical Interface

O/E module : 1310/1550 nm MLM Laser  
Fiber type : SMF  
Receive sensitivity : -34dBm  
System gain : 20 ~ 30 dB

#### Alarm Indication

System : System Fail, ACO, Major/Minor  
Optical Interface : LOS, AIS, RDI, LCK,  
Laser on  
DSX3 Interface : ELOS, AIS, RDI

#### Power

DC : -36V ~ -72V  
AC : 90V ~ 264V ( 57Hz ~ 63Hz )

#### System Mechanical

W \* D \* H : 220 x 285 x 44.5 mm  
Optical : FC/PC, ST, SC  
DSX3 : BNC female connector  
HSSI : 50 pin SCSI-2 socket  
OW : Phone Jack  
SNMP : RJ-45 for LAN and serial ports  
Office alarm : D-type 9 pins female connector

#### Environment Condition

Temperature:  
0 ~ 45  $^{\circ}$ C for indoor application  
0 ~ 60  $^{\circ}$ C for outdoor application  
-25 ~ 70  $^{\circ}$ C for storage  
Humidity : 5 ~ 95 %/without condensing

### Features

- \* Transparent DSX3 signal between electrical and optical link
- \* 1+1 auto-protection switch for optical link
- \* 1310/1550 nm optical MLM mode laser for customer applications
- \* 20 ~ 30 dB optical system gain
- \* SNMP agent for local/remote units management and performance monitoring that included DSX3 and optical links
- \* Provides the BPV and PP error count for DSX3 interface performance monitoring
- \* Provides the parity error count optical link interface performance monitoring
- \* LAN and serial ports are provided for SNMP management
- \* Embedded operation channel (EOC) for remote unit performance monitoring and configuration
- \* Local/remote loopback for DSX3 electrical and optical links
- \* Compliant with ITU-T G.703 DSX3 electrical interface
- \* Compliant with ITU-T G.824 DSX3 jitter tolerance
- \* Compliant with ITU-T G.752 DSX3 jitter transfer
- \* Provided with 8 or 10 or 45Mbps HSSI interface
- \* Order wire (OW) channel is available for end-to-end installation and maintenance
- \* Easy installation and status monitoring through LCD panel and keypad or VT-100 terminal
- \* ELOS/AIS/RDI LED indication for DSX3 electrical link
- \* LOS/AIS/RDI LED indication for optical link
- \* Central office visible/audible alarm contacts
- \* Stand-alone or 19"/23" rack-mounted
- \* Redundant power supply with DC/AC options

\* Specifications subject to change without notice.



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