

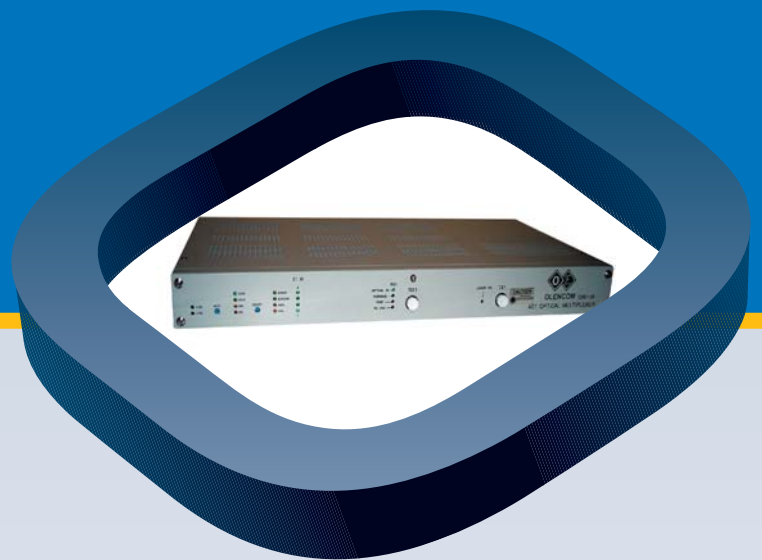
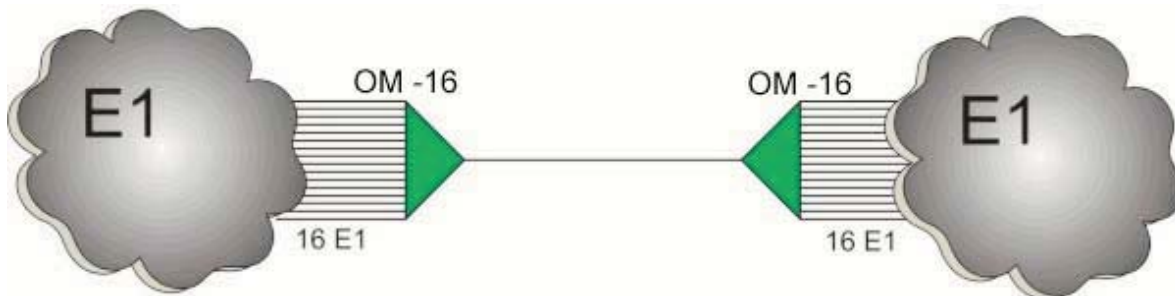
# OM-16

## Fiber Optical Multiplexer

### Description

Olencom's OM-16 series products, T1/E1/Combination optical multiplexer, are optical transmission equipments for up to 16 T1/E1/Combination signals transmitted through the fibre link. The T1/E1 signals are transmitted over optical fibre for better quality and longer transmission distance. Besides, OM-16 provides many value-added functions to meet customs' needs. It is a very flexible and efficient way to use the OM-16 in your optical transmission network for voice, data, and wireless applications. OM-16 provides network management system for local/remote maintenance purpose by a friendly GUI way. The alarm-auto-report makes user treat network failure as soon as possible. The user also can monitor all electrical/optical interfaces according to performance monitoring. OM-16 supports SNMP Orderwire. OM-16 also provide dipswitches and LED indications for field application. On optical transmission line, the OM-16 products provide two fibre links for 1+1 protection. The E1/T1 electrical interfaces meet the ANSI/ Bellcore/ITU-T requirements. The code and line compensation for E1/T1 electrical interfaces are field selectable. There are 4 miscellaneous inputs for monitoring alarms of environments.

### Application



### Features

- ✓ 4,8,16 E1/T1/Combination optical multiplexer
- ✓ NMS in text or GUI mode (support SNMP)
- ✓ MIB supported: RFC-2495 (DS1, E1 objects), RFC 2233 (Interfaces Group), and RFC 2493 (Performance History), and optical objects.
- ✓ Transparent Embedded User Channels via RS232 interface.
- ✓ 1+1 optical Automatic Protection Switch (APS) option
- ✓ 25 dB system gain
- ✓ Stand alone or mount on 19" or 23" rack
- ✓ Office alarms and four environmental alarm inputs
- ✓ Orderwire option
- ✓ AC or DC (dual powers for protection)
- ✓ BER <  $1 \times 10^{-11}$



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### Product specifications

#### Optical Interface:

Source	1310nm MLM Laser
Fiber type	SMF
system gain	25 dB
protection (option)	1+1 APS

#### E1 Electrical Interface

#### ITU-T G.703

Data rate	2048Kbps+50ppm
Line code	HDB3
Line impedance (selectable)	75 or 120 ohms

#### T1 Electrical Interface

#### ANSI / Bellcore / ITU-T G.703

Data rate	1544Kbps+50ppm
Line code	AMI/B8ZS
Line impedance(selectable)	100 ohms

#### RS232 Interface for User Channel Async mode

data rate	up to 38.4Kbps
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#### Capacity

E1/T1	4, 8, 16
RS232	3

#### Craft Interface

RS232

#### NMS Interface

RS232/RJ45

#### Maintenance:

local/remote loopbacks for optical and each E1/T1 interface

#### LED Indications:

Power on, E1 in, abnormal, system fail, ACO, major/minor, electrical fail, receive fail, far end receive fail, working fiber line laser on, command operated

#### Office Alarms:

Visible/audible for major/minor

#### Environmental Alarm:

Input:(option) 4

#### Mechanical:

High x Width x Depth 44x439x205mm  
Optical FC/PC  
E1/RS232/CIT/office alarm/environment alarm in  
D-type 9-pin female

#### Power:

AC 90~264VAC,  
53~63Hz  
DC 42~60VDC  
Protection AC/DC APS  
power consumption <13W

#### Temperature Range

Specified 0~60 °C  
20~75 °C

#### Humidity

condensation up to 95% without

#### EMI/EMC

EN 50082-1

