



OptiEnd -101 and 102 Metro Ethernet Series

Six Ports GigE Ethernet Demarcation Unit with T1/E1

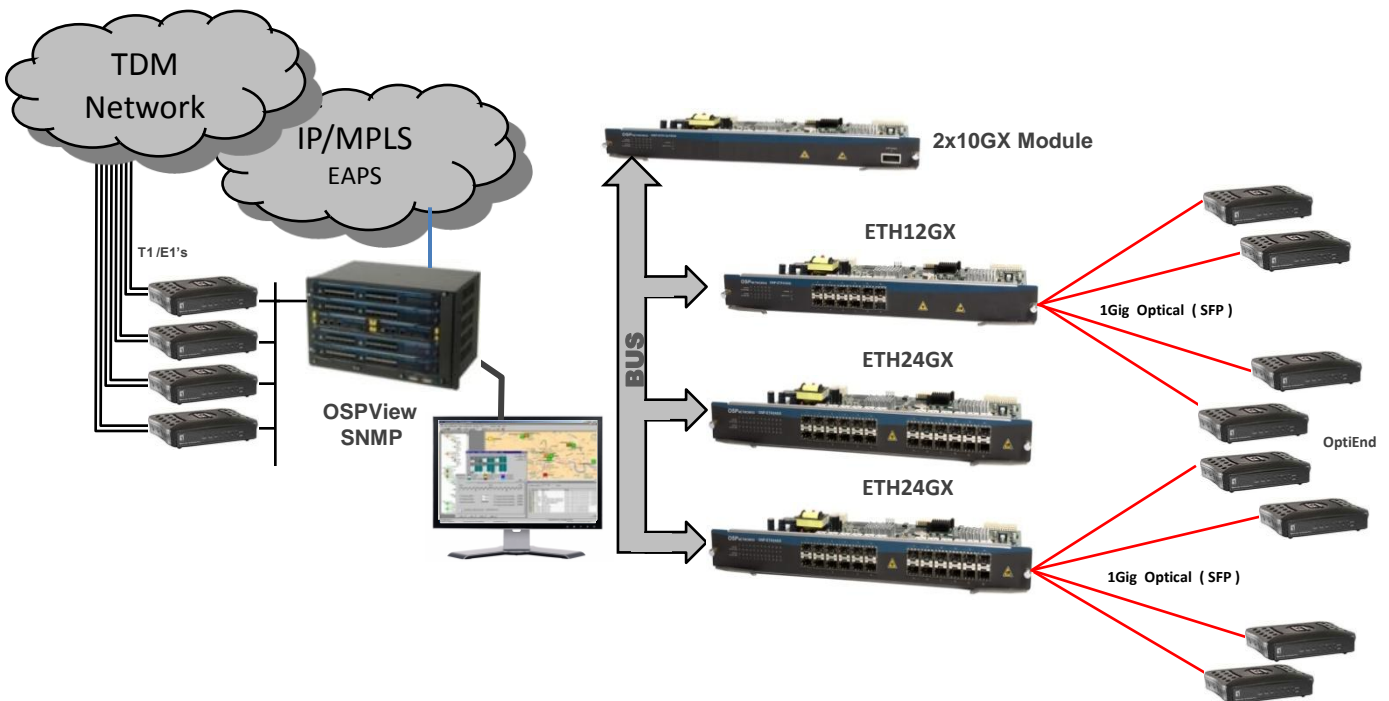
OptiEnd family has been developed to offer high speed Optical Metro Ethernet GigE services with the option of transporting TDM traffic within the Ethernet link. The OptiEnd main features provide four 10/100/1000 BaseT customer ports and dual 100Base-FX or dual 1000Base-X Network Connections. The product may transport Ethernet and TDM traffic on a point to point basis or in conjunction with a T1/E1 concentrator utilizing CESoPSN standards.

Hardware Specifications

GBE Copper Ports	4 x 10/100/1000BaseT
Optical Ports (SFP)	2 x 100Base-FX 2x 1000Base-X
Optional T1 or E1	1
MAC Address Table	4K
Power	AC/DC Full-range
Packet Buffer	128K
Flash	2MB
SD RAM	8MB

Standards

IEEE	
802.3	10Base-T,
802.3u	1000Base-TX
802.3z	1000Base-SX
802.3ab	1000Base-T
802.3x	Flow Control
802.1D	Bridging
802.1Q	Virtual LAN
802.1p	Priority Support
802.3ah	Ethernet First Mile
802.1ag	Connectivity Fault Management
IETF	
RFC1812	IPv4
RFC1157	SNMP Protocol
RFC2474/2475	DiffService
RFC4197	Emulation Edge-to-Edge
RFC5086	CESoPSN
MIBs	
RFC1213	MIB-II
RFC4878	Draft-ietf-hubmib-efm-mib-06
802.1ag	802.1ag81v3
ITU-T	
Y.1731	OAM Functions and Mechanisms
G.704	Synchronous Frame Structure





OptiEnd -101 and 102

Software Functions

Fast Ethernet SFP Modules

100Base X SFP Module. Fast Ethernet Multimode dual fiber optical interface, 850 nm, Tx power -10dBm, Rx sensitivity -24dBm. LC connector. Typical reach of up to 2 km.

100Base X SFP Module. Fast Ethernet Multimode dual fiber optical interface, 1310 nm, Tx power -14dBm, Rx sensitivity -31dBm. LC connector. Typical reach of up to 2 km.

100Base X SFP Module. Fast Ethernet Single mode dual fiber optical interface, 1310 nm, Tx power -15dBm, Rx sensitivity -34dBm. LC connector. Typical reach of up to 30 km.

100Base X SFP Module. Fast Ethernet Single mode dual fiber optical interface, 1310 nm, Tx power -5dBm, Rx sensitivity -35dBm. LC connector. Typical reach of up to 60 km.

100Base X SFP Module. Fast Ethernet Single mode dual fiber optical interface, 1550 nm, Tx power -35dBm, Rx sensitivity -35dBm. LC connector. Typical reach of up to 100 km.

100Base X SFP Module. Fast Ethernet Single mode dual fiber optical interface, 1550 nm, Tx power -35dBm, Rx sensitivity -35dBm. LC connector. Typical reach of up to 120 km.

100Base BX20-U SFP Module. Fast Ethernet Single mode single fiber optical interface, 1310nm Tx, 1550nm Rx, Tx power -14dBm, Rx sensitivity -32dBm. LC connector. Typical reach of up to 20 km.

100Base BX20-D SFP Module. Fast Ethernet Single mode single fiber optical interface, 1550nm Tx, 1310nm Rx, Tx power -14dBm, Rx sensitivity -32dBm. LC connector. Typical reach of up to 20 km.

100Base BX60-U SFP Module. Fast Ethernet Single mode single fiber optical interface, 1310nm Tx, 1550nm Rx, Tx power -5dBm, Rx sensitivity -34dBm. LC connector. Typical reach of up to 60 km.

100Base BX60-D SFP Module. Fast Ethernet Single mode single fiber optical interface, 1550nm Tx, 1310nm Rx, Tx power -5dBm, Rx sensitivity -34dBm. LC connector. Typical reach of up to 60 km.

Flow Control	Half duplex Backpressure; Full duplex PAUSE (IEEE 802.3x)
Auto-negotiation	Speed, duplex mode, flow control and MDI/MDIX.
Management	SNMP v1/v2c*
	Cabling connectivity diagnostic tool*
	OAM (EFM – IEEE 802.3ah)
	CFM (IEEE 802.1ag)*
	Static or dynamic IP Address (DHCP/BOOTP)
VLAN	Tagging with up to 4096 simultaneous VLANs (IEEE 802.1q)
	Port Based
	Q-in-Q double tagging*
QoS (Signaling, Classification, prioritization)	4 queues per port.
	TCI tagging (IEEE 802.1p).
	DSCP.
	Destination MAC.
	Rate Shaping (Ingress and Egress) with 80kbps granularity per port for CIR and PIR* definition
	Weighted Round Robin, High Queue Preempt
CESoP	UDP Multiplexing
	Adaptive Clock.
Other Functions	Jumbo Frame support up to 9KB

Physical, Environmental and Electrical Conditions

Dimensions (H x W x D): 1.7in x 7.66in x 7.87in
Dimensions (H x W x D): 44mm x 195mm x 200mm
Approximate weight: 2.2lb

Electrical:

Power input: 93 to 250 VAC or -36 to -72 VDC, auto sensing.
 Power consumption: 20 W

Order Information

Description:

Part Number:

(4x 10/100/1000BaseT plus 2x 100Base-FX SFP)	OptiEnd-101
(4x 10/100/1000BaseT plus 2x 100Base-FX SFP) plus one E1 75ohms BNC	OptiEnd-101E
(4x 10/100/1000BaseT plus 2x 100Base-FX SFP) plus one E1/T1 120ohms RJ45	OptiEnd-101TE
(4x 10/100/1000BaseT plus 2x 100Base-FX or 1000Base-X SFP)	OptiEnd-102
(4x 10/100/1000BaseT plus 2x 100Base-FX or 1000Base-X SFP) plus one E1 75ohms BNC	OptiEnd-102E
(4x 10/100/1000BaseT plus 2x 100Base-FX or 1000Base-X SFP) plus one E1/T1 120ohms RJ45	OptiEnd-102TE
(4x 10/100/1000BaseT plus 2x 100Base-FX or 1000Base-X SFP) plus one E1/T1 120ohms RJ45	OptiEnd-102TE