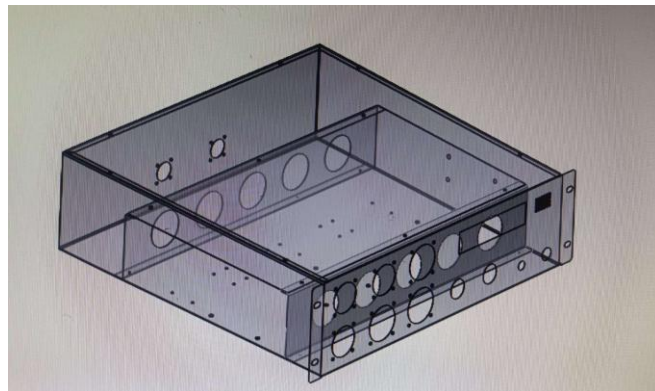


AT-OLT-IMG8E16



PRODUCT OVERVIEW: - AT-OLT-IMG8E16 In today's connected world, the need for reliable, rugged, and high-performance communication systems is more critical than ever—especially in industries exposed to harsh environments. **ANDA TELECOM PVT. LTD.** introduces the **Rugged Optimux**, a cutting-edge multiplexer built specifically for industrial and military applications where standard networking equipment often fails.

The **Rugged Optimux** is engineered to operate reliably in extreme conditions, such as high temperatures, humidity, vibration, dust, and moisture. Designed for sectors like oil & gas, manufacturing, transportation, utilities, and defense, it stands as a robust alternative to conventional multiplexers.

By emphasizing durability, efficiency, and adaptability, the Rugged Optimux helps organizations consolidate their communications infrastructure without compromising reliability. Whether deployed in remote oil fields, challenging production lines, or tactical military settings, the Rugged Optimux delivers seamless and stable connectivity.

BRIEF DESCRIPTION: -

The ANDA TELECOM Rugged Optimux is a console-controlled industrial-grade optical transmission device. It supports **1+1 fiber path protection**, **point-to-point optical transmission**, **LCD display**, and **SNMP network management**, built upon our proprietary PDH optical platform with custom VLSI.

Key Features

- Up to 16 E1 channels
- 1–4 Ethernet ports (10M/100M/1000M, switch interface)
- Supports VLAN

Anda Telecom Pvt. Ltd.

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- 1+1 optical redundancy with V.35 interface
- Redundant AC & DC power supply
- Compliant with JSS:55555 standards

Functional Highlights

- Supports 16 transparent E1 channels
- Integrated LCD display and SNMP agent
- 1+1 fiber protection with automatic laser shutdown (ALS)
- 4-port Gigabit Ethernet with line rate control (multiples of 32Kbps)
- Redundant fiber interface (master/slave) for uninterrupted service
- E1 complies with ITU-T G.703, G.823, G.742
- Ethernet: full/half duplex, auto-negotiation (10/100/1000 Mbps)
- **VLAN** support with 4 user-selectable division modes
- Ethernet packet size up to **1916 bytes**
- Remote monitoring, alarms, and loop testing for E1
- Dual power input: **AC 220V & DC -48V** (redundant)

TECHNICAL SPECIFICATIONS

E1 Interface

• Standard	ITU-T G.703, G.823 compliant
• Bit rate	2.048 Mbps $\pm$ 50ppm
• Encoding	HDB3
• Impedance	75 Ω or 120 Ω
• Connector	RJ45

Fast Ethernet Interface

• Ports	4 x 10/100/1000 Mbps
• Modes	Auto-negotiation, full/half duplex, flow control, MDI/MDX
• Compliance	IEEE 802.3, 802.3u, 802.1p/q
• Max Frame Size	2047 bytes
• VLAN	1–4094 (16 VLANs supported)
• Port Modes	Untagged, tagged, transparent, double-tagged
• MAC Table	2K

Management Ports

• Console	MIL-grade connector, 9.6kbps
• Ethernet Management	10/100BaseT, RJ45
• SNMP Support	v1/v2

Environmental & Physical Specifications

Housing

- Material: MIL-grade aluminum alloy
- Finish: Precision-machined for rugged use

I/O Termination

- MIL-38999-III connectors

Operating Conditions

• Temperature	20°C to +50°C
• Humidity	≤90% RH (non-condensing)

Power Requirements

• AC Input	100V–260V @ 50Hz
• DC Input	36V to -72V
• Power Consumption	≤10W

FIBER SPECIFICATIONS

Multi-Mode Fiber

• Core Sizes:	50/125μm, 62.5/125μm
• Distance:	Up to 5 km @ 62.5/125μm
• Wavelength:	820 nm
• Tx Power:	12 dBm to -9 dBm
• Rx Sensitivity:	28 dBm
• Link Budget:	16 dB

Single-Mode Fiber

• Core Sizes:	8/125μm, 9/125μm
• Distance:	Up to 40km @ 9/125μm
• Wavelength:	1310 nm
• Tx Power:	9 dBm to -8 dBm
• Rx Sensitivity:	27 dBm
• Link Budget:	18 dB

RUGGEDIZATION & MILITARY COMPLIANCE

• Housing	MIL-grade aluminum alloy
• Construction	Precision-machined for rugged applications

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• Connectors	MIL-38999-III for all I/O
• Shock protection	Built-in shock mounts
• EMI Filtering	Integrated power line filters
• Dust protection	Circular connector dust caps included
• Power options	Internal DC circuit; external AC adapter optional
• Compliance	Fully meets JSS55555 military standard
• Modular Design	Patch cables provided for circular termination
• Connector Supply	Unit supplied with mating connectors only

ORDERING INFORMATION: -

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