

## *EtherNodePlus OTEN-131*

Media Converter (Standalone; Single Wavelength; 10/100 Base-TX to 100 Base-FX)

### Features / Benefits

- Bidirectional transmission of 10/100 BaseT Ethernet utilizing only one wavelength over SM fiber
- Economical 1310nm wavelength
- Fully compliant IEEE 802.3, IEEE 802.3x & IEEE 802.3u
- RJ-45 Port supports MDI/MDIX Auto-negotiation of half/full duplex 10BaseT/100BaseT
- Data packet forwarding & filtering at full wirespeed (10=>100Mbps; 100=>100Mbps; 10=>10Mbps)
- Supports backpressure for flow control in half duplex mode
- Status Mode DIP Switch to set the media converter port configuration to any working mode
- Six Diagnostic LEDs for power, TX link act, FX link/act, transfer speed, duplex mode & collision
- Built-In AC power supply
- Low Power Consumption @ < 4Watts
- Compact (6.7"x 5.2"x 1.4"), rugged standalone housing; Wall mounting with optional bracket kit



The **OLSON TECHNOLOGY, INC. Model OTEN-131 EtherNodePlus** is a compact, cost-effective, standalone copper-to-singlemode optical fiber unmanaged media converter designed around the very latest ethernet transceiver technology. It reliably transports full duplex 10/100 BaseT Ethernet from 0 to 40km on a single strand of fiber utilizing only one optical wavelength (1310nm).

Fast Ethernet is one of the best choices for building LANs and WANs because of its high performance-to-cost ratio. However, since the copper based unshielded twisted pair (i.e. CAT5 UTP) transfer distance is typically less than 100 meters, this fiber-based media converter converts 10/100 TX (RJ-45) to 100FX (SC-APC) and can extend link transfer distance to over 40km. The unit is ideally suited for direct fiber transmission of IP "Triple Play" data, voice and/or video Ethernet-based signals in FTTH, FTTP, PON, MDU, industrial, corporate, government, educational, I-Net or other applications where a high performance, compact media converter is required. It is easy to install and does not require software configuration or management, and can be deployed almost anywhere due to its small physical size.

# EtherNodePlus OTEN-131

## ETHERNET SPECIFICATIONS

<b>Cables:</b>	(1) Cat. 5 UTP (1) SMF 9/125µm
<b>Connectors:</b>	(1) RJ-45 (1) SC/APC
<b>TP Port:</b>	IEEE 802.3 10BaseT; IEEE 803.3u 100BaseTX Shielded RJ-45 jack with Auto MDI/MDI-X detection Auto negotiation for speed and duplex auto detection Forced mode with speed and duplex settings Speed for 10Mbps or 100Mbps Full duplex or half-duplex support
<b>FX Port:</b>	802.3u 100BaseFX compliant; See Ordering Info ( <i>below</i> ) for wavelength options Forced 100Mbps, Full duplex ( <i>factory default</i> )
<b>LED Indicators:</b>	Power, TX link/act, FX link/act, transfer speed, duplex mode and collision

## ENVIRONMENTAL, ELECTRICAL & MECHANICAL SPECIFICATIONS

<b>Environment:</b>	Operating Temperature: -5°C to +50°C Storage Temperature: -20°C to +65°C Relative Humidity: 5% to 95% ( <i>non-condensing</i> )
<b>Electrical:</b>	Power Input: 120V <sub>AC</sub> Power Consumption: < 4W
<b>Mechanical:</b>	Dimensions: 6.7" x 5.2" x 1.4" (170mm x 130mm x 34mm) ( <i>L x W x H</i> ) Weight: 0.5 lb (225g)

## OPTICAL SPECIFICATIONS & ORDERING INFORMATION

<u>Model No.</u>	<u>Fiber /Connector</u>	<u>Wavelength</u>	<u>TX Power</u> (Min./Max.)	<u>RX Sensitivity</u> (Min./Max./Sat.)	<u>Path/Dist.</u> dB / km
OTEN-131-H-SA	SM/SC-APC	1310 nm	-8 / -3 dBm	-34 / -35 / 0 dBm	26-32 / 0-40+
OTEN-WMKIT-1	Wall Mount Kit for OTEN-131				

