

## ***EtherNodePlus*** Model OTEN-131 Media Converter Standalone, Single Wavelength, 10/100 Base-TX to 100 Base-FX

### Features / Benefits

**Bidirectional transmission of 10/100 Base T Ethernet utilizing only one wavelength over SM fiber.**

Economical 1310nm wavelength.

Fully compliant with IEEE 802.3, IEEE 802.3x and IEE 802.3u.

RJ-45 port supports MDI/MDIX auto-negotiation of half/full duplex 10BaseT/100BaseT.

Data packet forwarding and filtering at full wirespeed (10⇒100Mbps; 100⇒100Mbps; 10⇒10Mbps).

Supports backpressure for flow control in half duplex mode.

Status Model DIP switch to set the media converter port configuration to any working mode.

Six diagnostic LEDs for power, Tx link activity, Fx link activity, transfer speed, duplex mode, and collision.

Built-in AC power supply; low power consumption @<4W.

Compact (6.7" x 5.2" x 1.4" rugged standalone housing wall mounts with an optional bracket.



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.

## System Specifications

### Ethernet Specifications

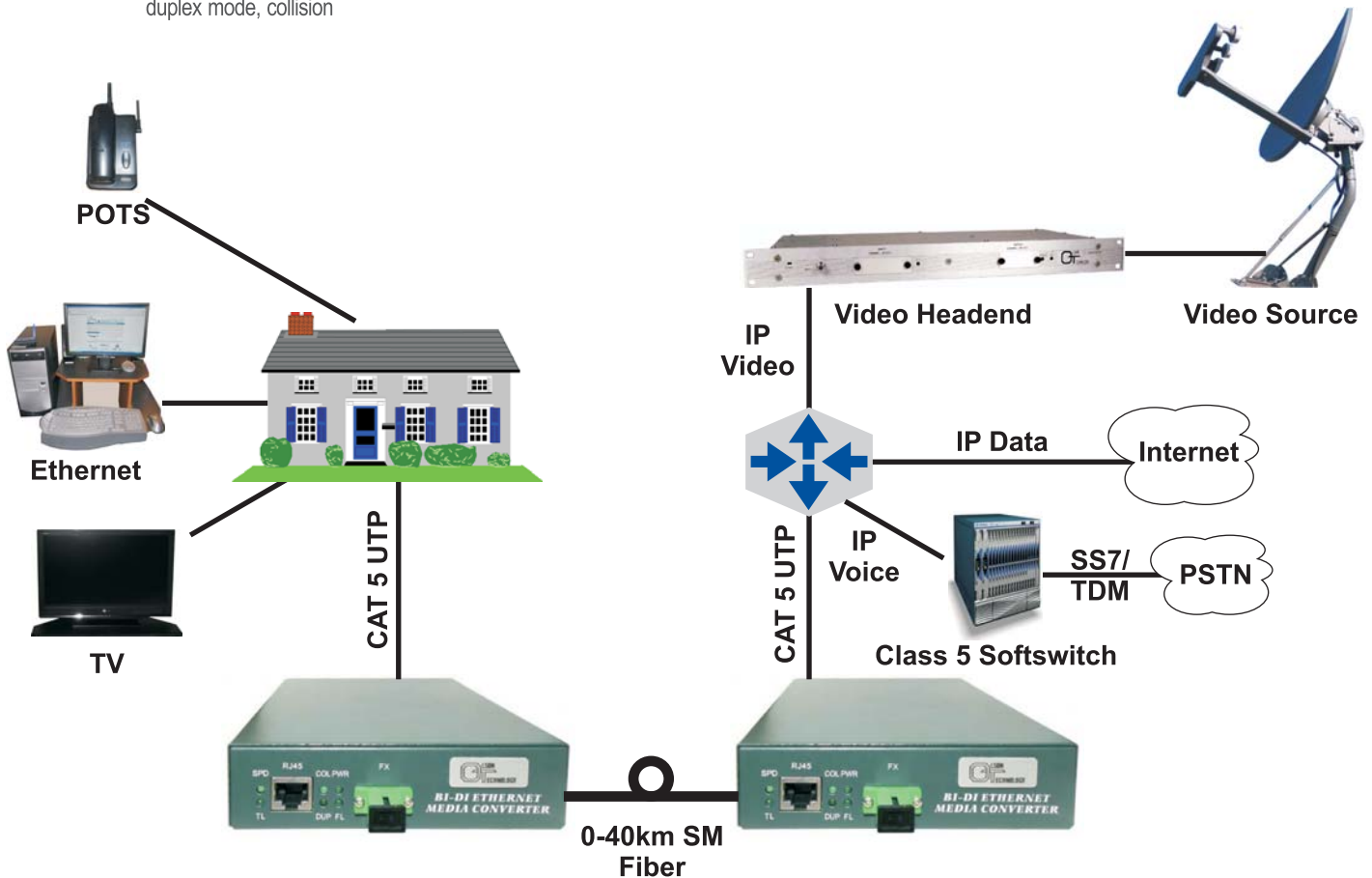
- Cables: (1) Cat.5 UTP  
(1) SMF 9/125µm
- Connectors: (1) RJ-45  
(1) SC/APC (FC/APC optional)
- TP Port: IEE 802.3 10BaseT  
IEE 802.3u 100BaseTX  
Shielded RJ-45 jack with Auto MDI/MDI-X detection  
Auto-negotiation for speed and duplex auto detection  
Forced mode with speed and duplex settings  
Speed for 10Mbps or 100Mbps  
Full duplex or half duplex support
- FX Port: 802.3u 100BaseFX compliant (see ordering info below for wavelength options)  
Forced 100Mbps, full duplex (factory default)
- LED Indicators: Power, TX link activity, FX link activity, transfer speed, duplex mode, collision

### Electrical and Environmental Characteristics

	Min	Typ	Max	Units
Power Supply Voltage		120		V <sub>AC</sub>
Power Consumption			4	W
Operating Temp. Range	-5		+50	°C
Storage Temp. Range	-20		+65	°C
Humidity (RH Non-Cond.)	5		95	%

### Physical Characteristics

	Min	Typ	Max	Units
Weight		0.5 225		lbs. g
Dimensions (L x W x H)	6.7 x 5.2 x 1.4			in.
	170 x 130 x 34			mm



### Ordering Information

- Model OTEN-131-H-SA Ethernetode, 1310nm, -8/-3dBm Min./Max. Tx Power, -34/-35/0dBm Min./Max./Sat. Rx Sensitivity, 26-32dB, 0-40km, SC/APC Connector (Note 1)
- Model OTEN-WMKIT-1 Wall mount kit for OTEN-131

**NOTES:**

1) SC/APC standard. Use FA to specify optional FC/APC optical connector.