

EtherNodePlus Model OTEN-4P-01 4-Port Media Converter, 10/100/1000M, SFP

Features / Benefits

Provides two (2) 10/100/1000M Ethernet ports and two (2) 1000Mb/s optical fiber SFP sockets to interchange 1000Base-T, 1000Base-SX, 1000Base-LX, etc.

Auto-negotiation function allows UTP ports to auto-select 10/100/1000Mb/s and full-duplex or half-duplex.

Broadcast storm protection.

Supports VLAN and Qos.

Multimode fiber transmission up to 550m; single-mode fiber transmission up to 80+km.

The units support the maximum 1536 byte Ethernet packet and flow control.

Low power consumption (3W max), low heat and good stability.

Wide operating temperature of 0°C to +50°C.



The OLSON TECHNOLOGY, INC. Model OTEN-4P-01 *EtherNodePlus* 4-Port Media Converter supports two 10/100/1000Mb/s UTP ports and two 1000Mb/s SFP sockets to convert between 1000Base-T, 1000Base-SX, 1000Base-LX, etc. This allows network operators to convert signals between an electrical Ethernet 10/100/1000Mb/s UTP interface and an optical interface. The traditional 10/100/1000Mb/s gigabit Ethernet can be extended to the distance of 80+km through a fiber optic link.

The OTEN-4P-01 incorporates the latest gigabit IC technology. Indicator LEDs on the front panel allow the unit's working conditions to be fully monitored, simplifying installation and maintaining network performance.

System Specifications

Ethernet Specifications

Standards: IEEE802.3z/AB, 10/100/1000Base-T and 1000Base-SX/LX/HX

Cables: UTP Category 5e or Category 6 (100m max. distance)
50/125µm Multimode Fiber (550m max. distance)
9/125µm Single-mode Fiber (80km max. distance)

Connectors: UTP: RJ-45, 10/100/1000Mb/s
Fiber: LC, 1000Mb/s

Mac Add. Table: 1K

Data Buffer: 512K

Bandwidth: 12G can be transmitted to achieve non-blocking wire-speed

Flow Control: Full-duplex IEEE802.3x
Half-duplex back pressure

Electrical and Environmental Characteristics

	Min	Typ	Max	Units
Converter Power Requirements (Note 1)		5		V _{DC}
Power Supply Voltage	100	140	240	mA
	50		60	V _{AC}
		300		Hz
Operating Temp. Range	-0		+50	mA
Storage Temp. Range	-20		+70	°C
Humidity (RH Non-Cond.)	5		90	°C
				%

Note 1) Using OTOLS-1312-30 SFP module.

Physical Characteristics

	Min	Typ	Max	Units
Weight		9.8		oz.
		280		g
Weight with 2 SFP Modules		11		oz.
		310		g
Dimensions (L x W x H)	4.92 x 3.35 x 1.06			in.
	125 x 85 x 27			mm

LED Indicators

100 Lit when TP1/TP2 speed is 100Mb/s.

1000 Lit when TP1/TP2 speed is 1000Mb/s.

Link/Act Lit when TP1/TP2 connection is good.
Blinks when TP1/TP2 data is transmitting.

SFP1 Lit when SFP1 connection is good.
Blinks when SFP1 data is transmitting.

SFP2 Lit when SFP2 connection is good.
Blinks when SFP2 data is transmitting.

PWR Lit when +5V power is being applied to the unit.



Table 1 - Typical Performance with Different SFP Modules

Fiber Type	Max. Distance	Wavelength	Tx Power	Sensitivity	Link Budget
50µm Multimode	550m	850nm	-11 to -6dBm	<-18dBm	7dBm
Single-mode	30km	1310nm	-8 to 0dBm	<-25dBm	17dBm
Single-mode	80km	1550nm, CWDM	-5 to 0dBm	<-25dBm	20dBm

Ordering Information

Model OTEN-4P-01 4-Port Media Converter; 10/100/1000M SFP Slots Media Converter, No SFP Module, with Power Supply

Model OTOLS-8512-02 1.25Gb/s SFP Module, MM, 850nm

Model OTOLS-1X12-XX 1.25Gb.s SFP Module, SM, 1310nm, 1550nm, CWDM

Model OTOLS-BI1X12-XX 1.25Gb/s SFP Module, SM, 1310nm/1550nm