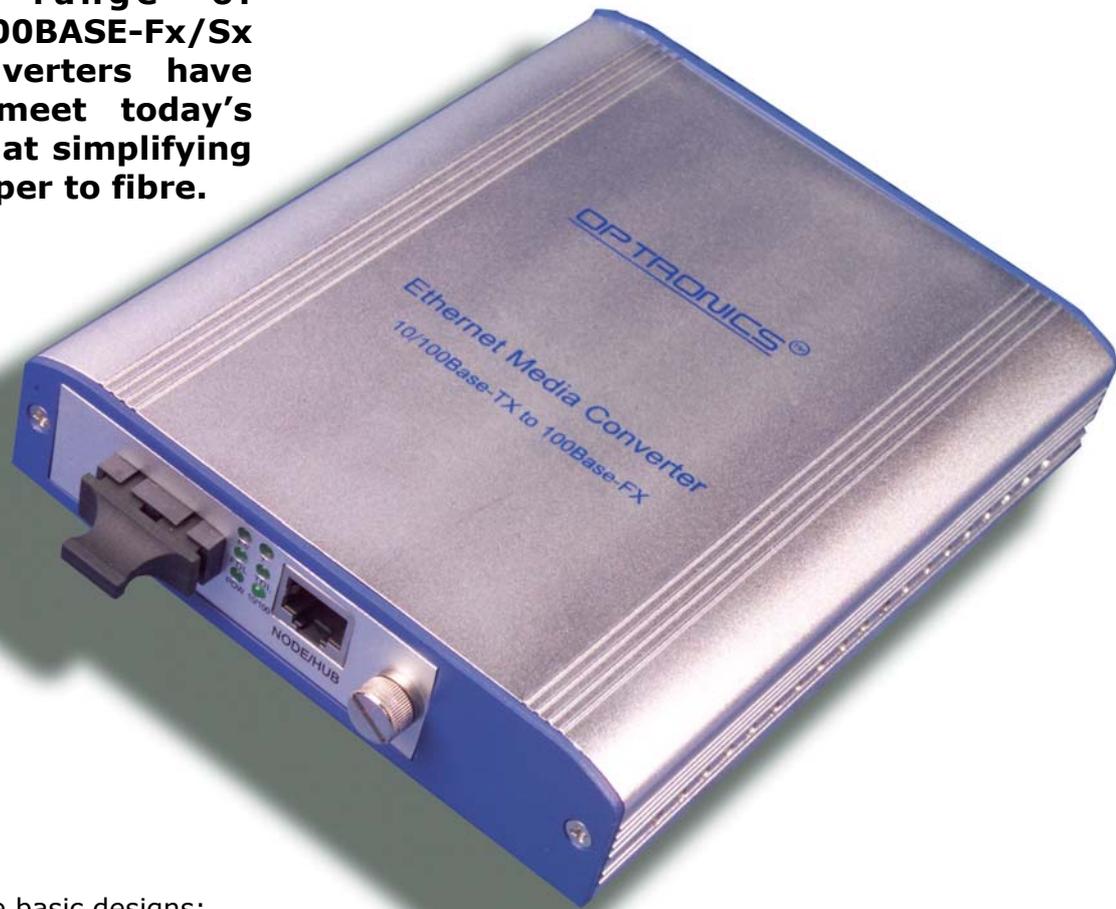


Media Converter

The OPTRONICS range of 10/100BASE-Tx to 100BASE-Fx/Sx Ethernet media converters have been designed to meet today's needs and are aimed at simplifying the conversion of copper to fibre.

The units have a built in power supply that use an industry standard power lead allowing the units to be connected to power outlets, strips or UPS supplies as your needs require. Manufactured in a strong aluminium casing, the units are very rugged and well screened from external electrical noise.



There are three basic designs;

- A normal unit for duplex multi-mode traditional data networks.
- Three long haul duplex single-mode units capable of driving the signals between 20 and 60KM.
- Finally a group of single mode long haul units that only require a single fibre for both transmit and receive signals, doubling your fibre capacity.

The standard units are a cost effective solution to connect remote buildings or sites to your existing network. Most of the cost involved in adding a fibre connection to your network is normally swallowed up replacing your existing copper switch to one that incorporates a fibre port.

With the OPTRONICS media converter you can simply connect into an existing copper switch for a fraction of the cost of a new copper/fibre switch. Many modern switches have an upgradeable fibre port, but the cost of the fibre module is still higher than utilising the OPTRONICS media converter.

The single fibre units utilise high specification, Wave Division Multiplexing to use 1310nm and 1550nm single-mode fibre wavelengths for the transmit and receive signals. With the cost of installing even the shortest run of fibre at over £900, the single fibre media converters are a very efficient and cost effective way to expand the capacity of your fibre network without the expense of adding additional fibres.

Specifications

Standards	IEEE 802.3, IEEE802.3u, IEEE802.3x, 10/100BASE-Tx and 100BASE-Fx
Twisted Pair Connection	One port 10/100BASE-Tx with RJ45 connector Auto negotiation for 10/100 port speed and PC/switch operation
Twisted Pair Cable	Cat 5 EIA/TIA 100ohm UTP/STP, up to 100mts
Fibre Connection One port 100BASE-Fx with:	Duplex Multi-mode SC connector , 50/125 um or 62.5/125 um Cables to 2 km Duplex Single-mode SC connector, 9/125 um cables up to 20km, 40km or 60km, 1310 nm wavelength Simplex Single-mode SC connector version, as duplex single mode but uses 1310 and 1550nm wavelength
Data Transfer Rate	Fast Ethernet 100mbps
Power Requirement	85-265VAC 50/60Hz
Temperature	Operating: 0 - 40Deg.C (32 - 104Deg.F) Storage: -25 - 70Deg.C (13 - 158Deg.F)
Humidity	Operating: 20 - 80%RH Storage: 10 - 90%RH Non condensing
Dimensions	

100BASE Tx/Fx Switched Link

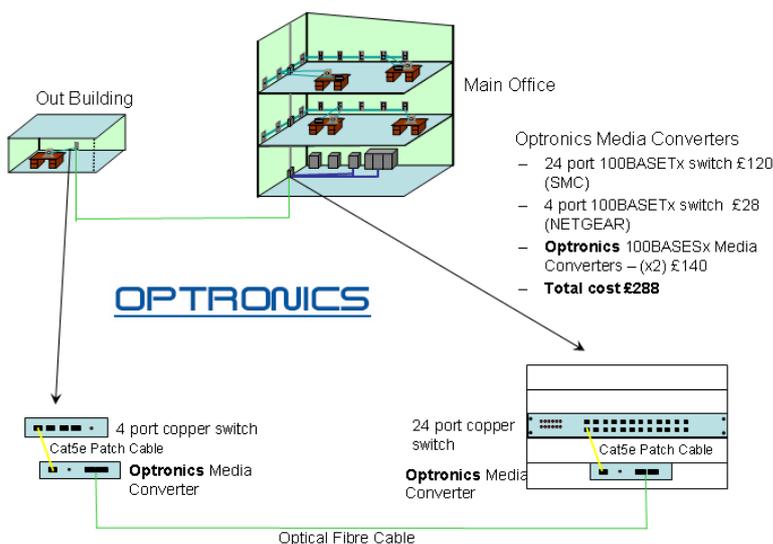
Installing fibre between two buildings using switches with a built in fibre port is very expensive and inflexible especially if you ever require expansion. Using Optronics fibre converters and standard copper switches can save you 30%.

We have estimated the cost to an installer of a simple fibre link from a main building to a small out building.

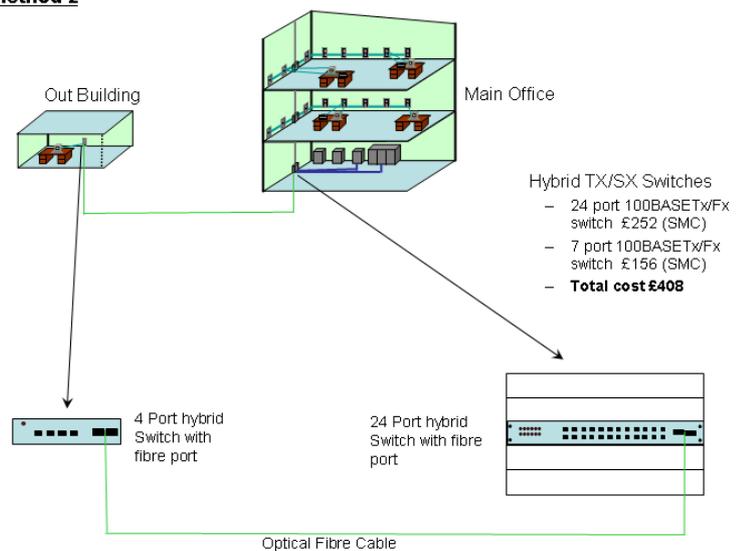
If an all copper 24 port switch was already in place, the savings in method 1 for the fibre link would be far greater.

LED	Colour	Function
FX	Green	Lit when fibre connection is good Blink when fibre data is active
FDL	Green	Lit when fibre full-duplex mode is active
TX	Green	Lit when TP connection is good, Blink when TP data is active
10/100	Green	Lit,100Mbps; Non-light 10Mbps
TDL	Green	Lit when TP full-duplex mode is active
PWR	Green	Lit when power connection is good

Method 1



Method 2



Ordering Information

OPTRONICS 10/100Base Ethernet Fibre Converter Internal Power Supply

Type	Fibre Type	Fibre Length (Km)	Wavelength (nm)	Fibre Interface	Power
MEDIACON/SM20PU	SM Dual Fibre	0~20	1310	SC	240vac 1.5A
MEDIACON/SM40PU		0~40			
MEDIACON/SM60PU		0~60			
MEDIACON10/100PU	MM	0~2	850/1310	SC	
MEDIACON/SM20PU1	SM Single Fibre	0~20	1310T/1550R	SC	
MEDIACON/SM20PU2			1550T/1310R		
MEDIACON/SM40PU3	SM Single Fibre	0~40	1310T/1550R		
MEDIACON/SM40PU4			1550T (DFB) /1310R		
MEDIACON/SM60PU5	SM Single Fibre	0~60	1310T/1550R		
MEDIACON/SM60PU6			1550T (DFB) /1310R		

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