

# FC6X00

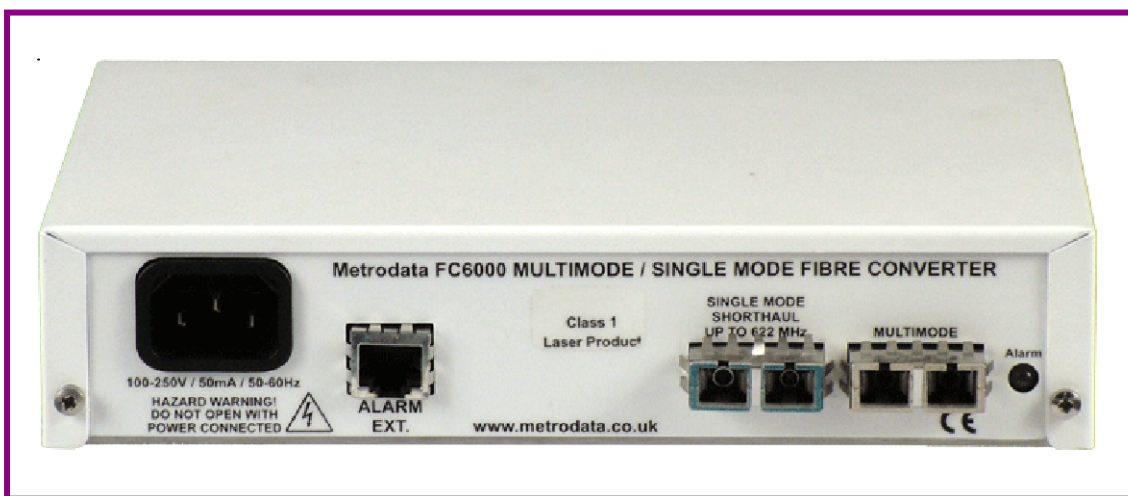
## Single-mode to Multi-mode Fibre Converter

- Operates at any speed up to 622 Mbps
- Simple single-mode to multi-mode conversion
- Use instead of expensive single-mode router interfaces
- Low-cost fibre interfacing
- External Alarm relay port
- Zero configuration required - just plug & go
- Compact unit with integral power supply
- Easy to install & maintain
- Rack mounting kits for 2 or 18 units available



# FC6X00

## datasheet



### FC6000 rear view

The FC6X00 provides a new level of price/ performance in connecting switches and routers to carriers' single-mode fibres. The FC6000 connects to short haul fibre, whilst the FC6500 connects to long haul fibre.

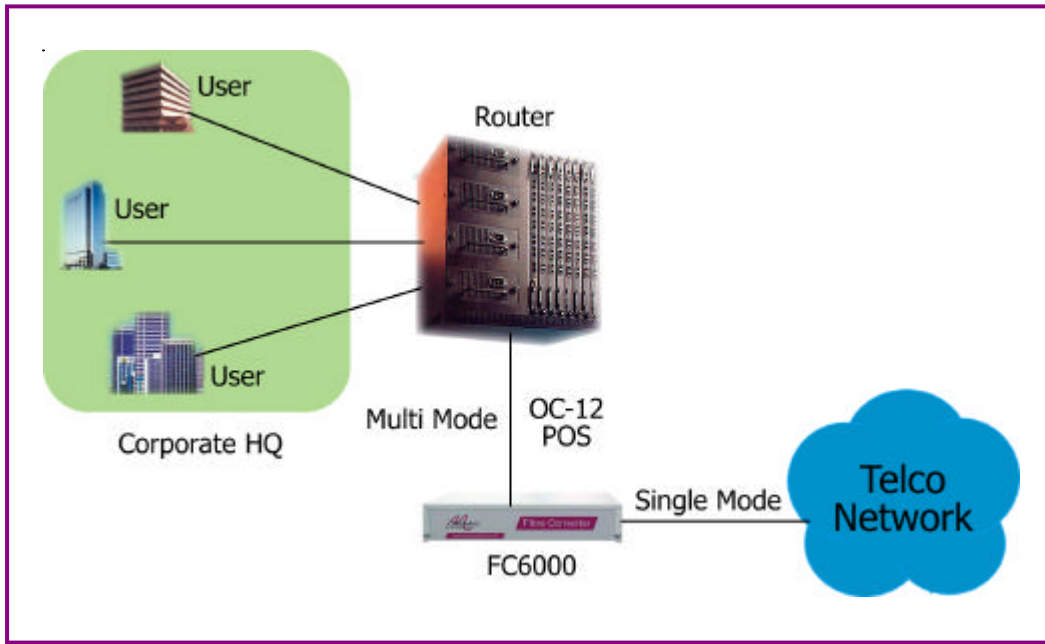
Connecting a switch or router to single-mode fibre usually requires the use of an expensive single-mode interface. The FC6X00 spans the gap between the multi-mode interfaces commonly available for use within a building and the single-mode fibre used for connecting to the local exchange. The FC6X00 offers a pair of dual SC interfaces, an LED for status checking, and needs no configuration. The unit operates automatically at the received data rate, which can be any speed up to 622 Mbps.

There is a choice of 100-250 VAC or -48 VDC integrated power supplies. Rack mounting kits are available for 2 or 18 units.

### About Metrodata

Founded in 1989 and based near London's Heathrow airport, Metrodata is a leading designer and manufacturer of datacommunications hardware for Fixed line, Satellite, Enterprise and Carrier networks. Specialising in interoperability and interconnectivity, Metrodata offers a range of Standard, Niche and System Integrated type products. These include Media converters, Interface converters, Fibre converters, Ethernet extenders and ATM switching and Circuit emulation products. Other specialist products manage high data rates and clock sensitive applications to ensure higher network performance. Metrodata provides COTS products to the commercial, government and defence sectors, as well as developing turnkey products to specific customer requirements. For more information and data on Metrodata products, visit our web site at [www.metrodata.co.uk](http://www.metrodata.co.uk)

Application Diagram



FC6X00

datasheet

Specifications

Single-mode Short haul Line Interface		Multi-mode Customer Interface	
Port	G.957	Port	G.957
Interface	Dual SC single mode 8/125 um	Interface	Dual SC multi-mode 62.5/125 um
Bit Rate	Up to 622 Mbps	Bit Rate	Up to 622 Mbps
Tx power	-8 dBm to -15 dBm	Tx power	-14 to -19 dBm
Max Rx input power	-8 dBm	Max Rx input power	-14 dBm
Rx sensitivity	-8 to -31 dBm	Rx sensitivity	-14 to -30 dBm
Optical loss budget	-15 - (-31) = 16 dB	Optical loss budget	-19-(-30) = 11dB
100-250 VAC Mains	FC6000 Part No: 80-05-913	<b>Power supply options</b>	
-48 VDC Supply	FC6000 Part No: 80-21-913	-48VDC Supply	-36 to -72 VDC, 150 - 85 mA
<b>Single-mode Long Haul Line Interface</b>		100-250 VAC Mains	100-250 VAC, 50/60 Hz, 60 - 25 mA, IEC connector
Port	G.957	Power consumption	6 watts approx when operating
Interface	Dual SC single mode 8/125 um	<b>Packaging</b>	
Bit Rate	Up to 622 Mbps	Type	Modem, 1U high without feet
Tx power	0 dBm to -5 dBm	Dimensions	W x Dx H mm
Max Rx input power	-8 dBm (may need attenuator)	Rackmount	202 x 132 x 44 (without feet)
Rx sensitivity	-8 to -34 dBm	Tabletop	202 x 132 x 48 (with feet)
Optical loss budget	-5 - (-34) = 29 dB	<b>Rackmount kits Model No</b>	
100-250 VAC Mains	FC6500 Part No: 80-05-914	1U 2 unit AC or DC Recessed profile kit	80-21-256
-48 VDC Supply	FC6500 Part No: 80-21-914	6U 18 unit AC mains	80-05-250
<b>Compliance &amp; Approvals</b>		6U 18 unit DC supply	80-05-255
Safety	EN60950		
EMC	EN55022, EN50082		
<b>Environment</b>			
Temp	0 - 50 deg C		
Humidity	0 - 95% RH, non-condensing		
Pressure	86-106 KPA		

For more data on Metrodata products, visit our website at [www.metrodata.co.uk](http://www.metrodata.co.uk)  
 Metrodata reserves the right to change specifications without notice.  
 Please check when ordering.

