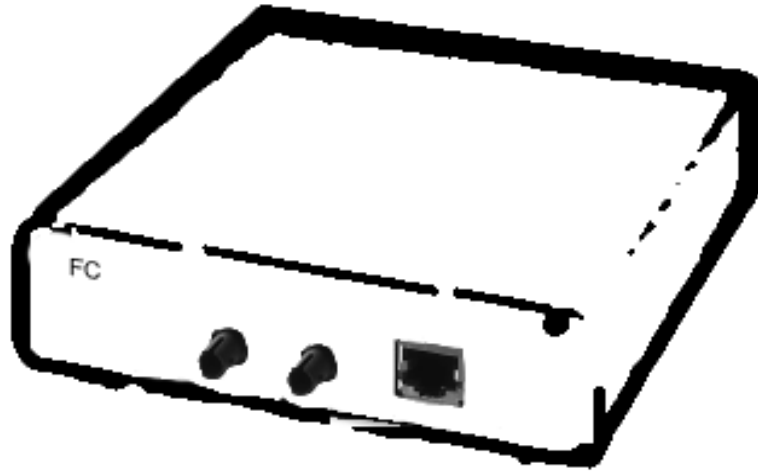


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### Fiber Optic Converter



#### Key Features

- ▶ Multimode:  
850 nm or 1300 nm LED
- ▶ Singlemode:  
1300 nm or 1550 nm
- ▶ Interfaces:  
RS485, RS422 and RS232
- ▶ Transmission distance:  
Max. 30 km
- ▶ Data rate:  
Up to 128 Kbps
- ▶ WDM Fiber Doubler (Option)
- ▶ Standalone, top hat rail  
mounting or rack mount version

Reliable data transmission is important especially in industrial areas. Transmission interference or system failures lead to the risk of higher costs, which can be reduced to a minimum by implementing fiber optic. Using fiber optic technology guarantees galvanic separation of connected devices, immunity to electromagnetic interferences and lightning currents. Fiber optic technology is characterized by high data rates and long transmission distances (without the use of repeaters).

The Fiber Optic Converter converts electrical data signals into light signals, transfers them transparently via optical fiber and reconverts them at the opposite side.

The modems of this product group transfer asynchronous data with a maximum speed of 128 Kbps. The standard interfaces used in the industry can be transformed by the MDSP serie: RS485, RS422 and RS232. The Fiber Optic Modem FC-A is designed for different cable types (multimode / singlemode) and LED components.

Due to this modular design transmission distances of up to 30 km can be achieved.

The units are available as standalone units, for top hat rail mounting or for installation in a 19" rack.

## Specifications

### General —

*Dimensions of the standalone unit / top hat rail unit*  
 40 x 145 x 150 mm (H x W x D)  
*Dimensions of the rack mount card*  
 160 mm Euro  
*LED indicators for*  
 On, FO RX,  
 fiber optic link

### Fiber Optic Specifications —

*Connectors*  
 ST, FC-PC, SC

### Data Transmission —

*Max. data rate*  
 128 Kbps (RS485 and RS422);

115.2 Kbps (RS232)

### Electrical Specifications —

*Supply voltage*  
 230 V ~ / 24 V =

### Options —

WDM

### WDM Specifications —

MM 850/1300 nm, 62.5/125 mm  
 SM 1300/1550 nm, 9/125 mm

### FiberOptik Specifications —

850 nm MM (SC or ST) 4 km  
 1300 nm MM LED (SC or ST) 6 km

1300 nm SM LED, 30 km  
 1550 nm SM LED (connections only with WDM)

### FiberOptic Connector Type —

SC, ST, FC-PC

### Interface Type —

RS232, RJ45  
 RS485, RJ45  
 RS422, RJ45

### Available Power Supply —

230 V AC Euro  
 230 V AC British  
 230 V AC Australia  
 115 V AC US  
 24 V DC

## Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

**On the Phone** — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

**On-site** — superior design and engineering, Certified installations, end-to-end service.

**On-line** — receive technical knowledge on-line, including technology overviews, BLACK BOX Explains and the Knowledge Box.

**Most comprehensive TECHNICAL SUPPORT** — our best Product! Free hotline TECH SUPPORT!

**The world's best customer service** — Custom design services and products, the best warranties, money-saving discount programs.

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## Ordering information

ITEM	CODE
Desktop, RS232, 850nm, MM, ST	.MDSP232-MM4-ST
Desktop, RS232, 1300nm, MM, ST	.MDSP232-MM6-ST
Desktop, RS232, 1300nm, SM, short range ST	.MDSP232-SM12-ST
Desktop, RS232, 2300nm, SM, ST	.MDSP232-SM30-ST
For further modules please call our TECH SUPPORT.	