



BLACK BOX[®]

NETWORK SERVICES

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Four Channel Fibre Mux



*Four separate E1 channels
over a single link.*

Key Features

- ▶ Fibre Optic Transmission Technology.
- ▶ 4 Port x 2 Mbps Multiplexer
- ▶ G.703 120 ohm balanced Interfaces.
- ▶ Local and Remote Test Loops Configurable from the Front Panel.
- ▶ Compact Unit.

Specifications

Connections

Input Channels — (4) G.703 120 ohm - RJ45

Fibre Link — (1) pair of SC

Control Port — RS-232/V.24 on (1) 9-Way D-Type

Management

Indicators — Status, Test, Channel 1,2,3,4, Optical Link Status, Master/Slave LEDs

Supervisor Port — RS-232, VT100 Local and Remote Management

User ports — Local & Remote

Loops:
Optical Port - Local Loop

Engine (Multiplexer)

Technology — TDM multiplexer and fibre converter

Data Rates — E1 Ports 2.048 Mbps

Range — Dual Fibre, Multi Mode - 18dB, up to approx. 7 Km

Operating Environment

Operating Temperature — -10° to +50 Celsius

Power — Standalone 90-230V, 50-60Hz, 9W max. autosensing

Size — 4.4.H x 48.3W x 20.5D cm

Weight — 2.64 Kg

Compact and simple to use

The BLACK BOX[®] MXU445 is a 4 port multiplexer designed to transport multiple channels of voice or data over optical fibre for point-to-point transmission applications such as base station backhaul. The use of optical fibre as the transmission medium greatly extends the range between modems compared to DSL systems. Due to the sturdy and compact design of the Four Channel Fibre Mux it can be easily located on a desktop or wall mounted in the same way as a DSL modem.

Four E1 ports are multiplexed onto a single or dual fibre channel for onward optical transmission. Each of the four user channels can deliver a framed or unframed E1 service.

Powerful test facilities

The MXU445 includes built in alarms as well as comprehensive

test and diagnostic facilities for ease of commissioning the links. Both the local and remote modems can be configured and managed using the integral, user friendly, management system. This is accessed from a VT100 terminal or PC with terminal emulation software connected to the front panel management port on the master modem. The MXU445 has been designed with reliability in mind to ensure high quality of service for all four of the user channels.

Further versions will be available for use with single mode as well as multi mode fibre, and the option of full duplex transmission over a single fibre will offer distinct cost and reliability benefits. The availability of a 1+1 protection switched version further improves the reliability of an installation.

Ordering Information

Item	Code
4 Channel Fibre Mux	
4 Channel Fibre Mux SC Multimode	MXU445MM



#81207