# BLACK BOX®
## NETWORK SERVICES

# MICROCONVERTER G.703/X.21

*Get the performance of 2.048-Mbps E1 lines without the expense of a top-end router*

## Key Features

▶ *Very inexpensive*

▶ *Highly reliable*

▶ *Connects routers with an X.21, EIA530, RS449 or V.35 interface to 2048kbit/s E!/G.703 circuits*

▶ *Both 75 ohm and 120 ohm connectivity in one unit*

▶ *Multiple power supply options including minus forty eight VDC*

The MicroMux G.703 is a low cost, high specification G.703 interface converter. It comes in two versions. The basic unit supports X.21, EIA530 and RS449 interfaces, including support for the external terminal timing signal on EIA530. The enhanced version supports V.35 in addition to the above. It can be configured by an engineer in the field to X.21, EIA530 and RS449, or to V.35. The native DCE interface connector is a DB15 for X.21. Adapter cables may be used to accommodate the other interface connector formats.

Both versions of the MicroMux G.703 support 75 ohm un-balanced and 120 ohm balanced G.703 connection, selection of which is by way of two externally accessible switches and use of either the BNC connections (un-balanced) or the RJ45 connection (balanced).

The unit is provided with an internal power supply. An IEC connected mains lead ensures stability in network critical applications. Power supply options include an auto-ranging self-sensing 90~260VAC international version and a -48VDC version for telecom applications.

## ▼ Ordering Information

| ITEM | CODE |
| --- | --- |
| Microconverter G.703/X.21 | MTU9000 |
| Microconverter G.703/V.35 | MTU9001 |

For RS-449 and RS-530, order the Microconverter G.703/X.21 and one of the following adaptors

| | |
| --- | --- |
| RS-449 DCE (F) adaptor cable, 2-m | CBL449 |
| RS-530 DCE (F) adaptor cable, 2-m | CBL530 |

For V.35, order the Microconverter G.703/V.35 and the following adaptor cable:

| | |
| --- | --- |
| V.35 DCE (F) adaptor cable, 2-m | CBLV35 |

To connect your X.21 equipment, order......

| | |
| --- | --- |
| X.21 Straight-Pinned cable, 3-m, M/M | EVNX21-003M-MM |

## Specifications

**Input port:** Synchronous serial. Use of external terminal timing signal EIA530/RS449 (switch selectable). D.T.E. clock inversion option (switch selectable). Local loop back option (switch selectable)

**Basic X.21 version:** X.21/V.11, 2048kbp/s speed, DB15 female connector. Optional support for EIA530 and RS449, using external adapter cables.

**Enhanced X.21/V.35 version:** As above plus support for V.35 (factory fitted option, connector defined using external adapter cable).

**Output Port:** G.703 clear channel, support for recovered clock (loop timing) and internal master clcok (switch selectable). Twin co-ax BNC (75 ohm un-balanced termination) connectors and RJ45 socket (120 ohm balanced termination). Network side data inversion option (switch slectable). Remote loop back option (switch selectable).

**Status Indicators:** Green LED for power status. Green LED for carrier line status. Amber LED for clock master enabled. Amber LED for terminal timing enabled. Amber LED for loop back enabled.

**Power:** Interna linear power supply 230V, 50Hz (-48VDC and multinational 90-260VAC optional)

**Size:** 195mm x 121mm (138mm over connectiors) x 45mm (7.7″ x 4.8″ x 1.8″ approx)

**Weight:** 0.95kg