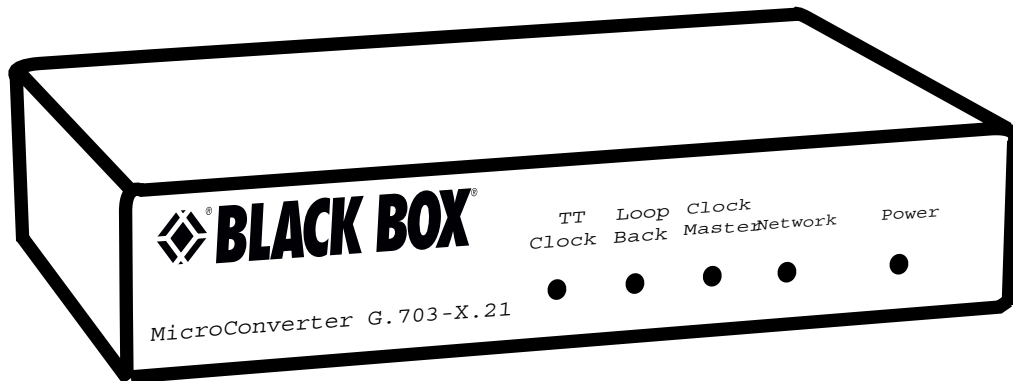


## G703/V.35 and X.21 Microconverter

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



### Key Features:

- ▶ G.703 to X.21
- ▶ G.703 to V.35
- ▶ G.703 to EIA-530/RS-449
- ▶ Simple configuration
- ▶ Unbalanced (coax) G.703
- ▶ Balanced (twisted-pair) G.703

### Overview:

The Black Box MicroConverter G.703 enables the connection of data communication to carrier services, or private services, such as microwave links, that are presented as G.703 at 2Mbit/s.

Many low-end routers currently on the market are able to handle 2 Mbit/s throughput, but are only available with conventional DTE interfaces, X.21 or EIA530. By combining one of these routers with the MicroConverter G.703 users gain the high-performance of 2 Mbit/s without the expense of a high-end router.

The standard model, the MicroConverter G.703/X.21,

supports X.21 DTE. The enhanced version, the MicroConverter G.703/V.35, can support both X.21 and V.35 DTE. Both versions support 75-ohm un-balanced and 120-ohm balanced termination of a G.703 network. For RS-449 or EIA-530 operation the relevant adaptor cable must be used with the MicroConverter G.703/X.21.

## Typical Application:

Connect your Cisco routers' X.21 interface to your 2 Meg leased line.

## Technically Speaking:

The MicroConverter G.703 comes pre-configured for 75-ohm unbalanced operation. Connection to the 75-ohm unbalanced G.703/E1 network is achieved through connection using the two BNC connectors on the rear panel of the unit.

For use on a 120-ohm balanced service then the connections should be made using the RJ-45 connector on the rear panel of the unit. As the units' default set-up is for 75-ohm, the correct setting should be made on the switch bank for 120-ohm balanced operation.

The data transmitted and received on the G.703 side of the MicroConverter G.703 could have originated on another piece of equipment. It is not uncommon for the data to be inverted by G.703 terminating equipment. The MicroConverter G.703 has the option to invert or not invert the data transmitted and received on the G.703 port.

## Specifications:

Cables – Mains lead; Adaptors required for V.35, RS-449, and EIA-530	Master, Loopback, Terminal Timing
Speed – 2.048 M-bps +/- 50 ppm	Power – Internal, 230 VAC, 50 Hz, IEC320 input connector
Standards – E1 G.703 (unframed), X.21, V.35, RS-449, V.36, EIA-530	Size – 4.5H x 19.5W x 13.8D cm
Interfaces – (1) G.703 on dual-coax (75 ohm), (1) G.703 on RJ-45 (120 ohm) switch-selectable, X.21, V.35, EIA-530, and RS-449 via DB15 F connector	Weight – 1 kg
Connectors – (1) DB15 F, (2) BNC (coax) F	Temperature – 5 to 45°C
Indicators – (5) LEDs: Power, Network, Clock	Relative Humidity – 10 to 90% (non-condensing)

## The Complete Package:

MicroConverter Unit  
User Guide  
Mains Lead

## Ordering Information

<b>Product Name:</b>	<b>Order Code:</b>
MicroConverter G.703/X.21 .....	MTU9000
MicroConverter G.703/V.35 .....	MTU9001
For V.35 order the MicroConverter G.703/V.35 and the following adaptor cable:	
V.35 DCE (F) Adaptor Cable 2-m .....	CBLV35
For RS-449 and EIA-530 order the MicroConverter G.703/X.21 and one of the following adaptor cables:	
RS-449 DCE (F) Adaptor Cable 2-m .....	CBL449
EIA-530 DCE (F) Adaptor Cable 2-m .....	CBL530
You may also require:	
X.21 Straight-Pinned Cable 3-m      M/F .....	ESX213MF

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