

TC703

X.21 to G.703 Interface Converter

The TC703 X.21 to G.703 converter provides an efficient, cost effective, solution to E1 connectivity.

The TC703 is a reliable, simple to install product that enables a LAN bridge or router to be connected to an unframed 2Mbps leased line circuit such as BT's Megastream2 service. The TC703 can also be used in reverse to connect a PABX PRI port to an X.21 unframed 2Mbps leased line circuit (requires an X.21 crossover cable).



Features

Designed and built to pan European approval and safety standards with an integral switch mode power supply (85-240VAC) and both BNC and RJ45 G.703 connectors fitted as standard. X.21 or V.35 DTE interface options are available. Clocking modes and bilateral loopback diagnostic functions are selected by switches which are recessed to avoid accidental mis-configuration.

Technical Details

Transmission Type:

2.048 Mbps +/- 50ppm
HDB3 encoded Alternate Mark Inversion to CCITT G.703 recommendations.

75 ohm Transmit level:

2.2 volts nominal 2.37 volts max. 60% duty cycle. 1mW into 75 ohm RG59 coax.
Master/slave timing selected by DIP switches.

120 ohm Transmit level:

2.8 volts nominal 3.05 volts max. 60% duty cycle. 1mW into 120 ohm twisted pair.
Master/slave timing selected by DIP switches.

G.703 Interface connection:

Dual BNC or single RJ45 socket located on the rear panel.
Note: BNC terminations are matched for 75 ohm coaxial cable and are electrically isolated from each other. Either or both BNC connectors can be grounded.

DTE Interface connection:

X.21 version: 15 way D-type socket
V.35 version: 34 way MRAC socket

Power connection:

IEC connector, 85-240vac 500mA max, 20mA typ.

Physical and Environmental

Physical Details:

Size: Length 210mm
Height 45mm
Width 150mm inc. connectors
Weight: 1 Kg

Environmental Limits:

Storage: 0-70°C
Operating: 0-40°C
Rel. Humidity: up to 95% non-condensing
Altitude: -50 to 3000 meters

Order Codes:

TC703-X.21	X.21 to G.703 Converter
TC703-X.21-S	X.21 to G.703 Converter with Internal BERT
TC703-V.35	V.35 to G.703 Converter
TC703-V.35-S	V.35 to G.703 Converter with Internal BERT

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