

# TC704

## X.21 to E1 (Nx64k) Interface Converter

The TC704 X.21 to E1 (Nx64k) converter provides an efficient, cost effective, solution to E1 connectivity.

The TC704 is a reliable, simple to install product that enables a LAN bridge or router to be connected to either an E1 (Nx64k) synchronous frame structure leased line circuit such as BT's Megastream1 service or an unframed 2Mbps leased line circuit such as BT's Megastream2 service.



### 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, timeslot start, bandwidth, CRC-4 error checking, skip timeslot 16 and bilateral loopback diagnostic functions are selected by switches which are recessed to avoid accidental mis-configuration. Rack mounting kit for up to 9 units available.

### 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/G.704 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 260mm  
Height 45mm  
Width 150mm inc. connectors  
Weight: 1.2 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:

TC704-X.21 X.21 to E1 (N x 64k) Converter  
TC704-V.35 V.35 to E1 (N x 64k) Converter

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