Straight 8
X.21 to G.703 Interface Converters

The Straight 8 is a high density 1u rack system that contains 8 high speed interface converters operating transparently at 2.048Mbps.
The unit is most commonly located at a corporate central site or telehouse connecting LAN bridges or routers via unframed 2Mbps leased line circuits, such as BT's Megastream2 service, to standalone G.703 to X.21 converters (eg the Teltronix TC703) installed at a number of customer premises.

Features

Designed and built to pan European approval and safety standards with dual redundant power supplies and both 75 ohm and 120 ohm G.703 connectors fitted as standard. 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:
Via either a pair of SMB sockets or single RJ45 socket for each converter located on the rear off the unit.
Note: SMB terminations are matched for 75 ohm coaxial cable and are electrically isolated from each other.

Either 3 metre SMB to standard BNC socket adaptor cables or RJ45 to RJ45 cables supplied.

DTE Interface connection:
Via 15 way D-type socket for each converter on rear of unit.

Physical and Environmental

Physical Details:

Size:	Standard 19" rack, 84HP wide x 1U high x 360mm deep
Weight:	3.2 Kg

Environmental Limits:

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

Order Codes:

Straight 8-SMB	Straight 8 with SMB to BNC cables
Straight 8-RJ45	Straight 8 with RJ45 to RJ45 cables

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