E1SS-1040/80 E1 G.703 Digital Splitter

1:4 way/ 1:8 way Splitter for E1 G.703 Streams



E1SS Signal splitters create identical copies of E1/PRI signal streams.

E1SS-1040 creates four identical outputs from a single E1 G.703 bitstream.

E1SS-1080 creates eight identical outputs from a single E1 G.703 bitstream.

E1SS is widely used in applications including re-routing, failover systems and Lawful Intercept and is the Industry standard in DAB/DMB ETI duplication.

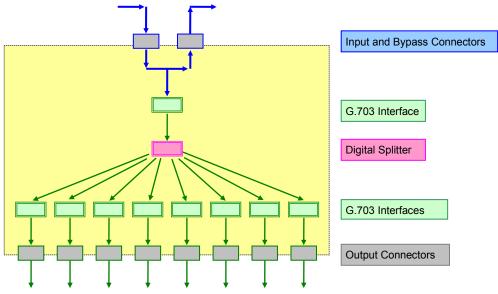
The source stream connection is made through two BNC connectors that are hard-wired in parallel. The original bitstream passes-through the Splitter without any in-line circuitry or delay.

Monitoring, recording and other equipment can be connected or disconnected at the outputs without disturbing the source bitstream, even when the Splitter is unpowered.

For compatibility with primary rate E1 Telecoms data, E1SS signal input/output interfaces incorporate ITU G.703 compatible receivers/drivers; common-mode line chokes; over-voltage protection and isolation transformers.

The unit is AC powered and supplied in a 1U rackmount case.

E1SS-1040 and E1SS-1080 are part of the E1SS product range, which also includes a programmable Router for E1, monitoring and recording applications.





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Specifications

Input

Signal Interface

E1 compatible with ITU G.703

Input impedance

40 kΩ without supplied external terminator

75 Ω with supplied external terminator fitted to the

bypass BNC connector

Input amplitude

±2.37 V ±10% nominal, to -12dB

±5 V maximum

Pulse width

230 ns to 260 ns

Input jitter tolerance

14UI @ 750Hz

0.4UI, 10kHz to 100kHz

Output

Signal Interface

E1 compatible with ITU G.703

Output impedance

 75Ω

Output amplitude

±2.37 V ±10%

Pulse width

244 ns nominal

Output jitter attenuation

10dB/decade from 10Hz

Meets the requirements of ITU G.736 and I.431

Input to Output Delay 1 µs

Minimum: Maximum:

16 µs

Typical:

8 µs

Status Indicators

Power

Signal presence

Input/Output Connections

BNC

AC Power

3-pin IEC

Power

Supply

85V -264V, 47Hz - 63Hz, universal input

1U rackmount chassis

Dimensions

482mm x 105mm x 44mm

Weight

1.6kg

Environmental

Temperature

0°C to 70°C

Relative Humidity

5% to 95% non-condensing



E1SS-1080 Rear Panel

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