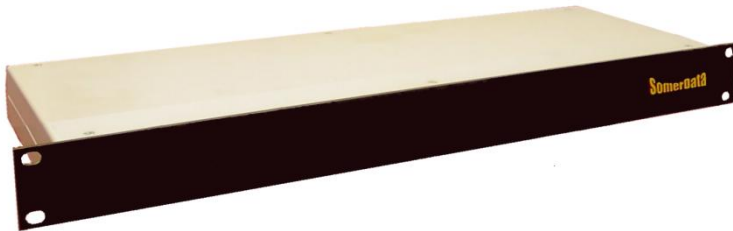


# E1SS-2040 E1 G.703 Digital Splitter

## 1:2 way Splitter for E1 G.703 Streams



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

**E1SS-2040** creates two identical pairs of outputs from a pair of E1 G.703 bitstream.

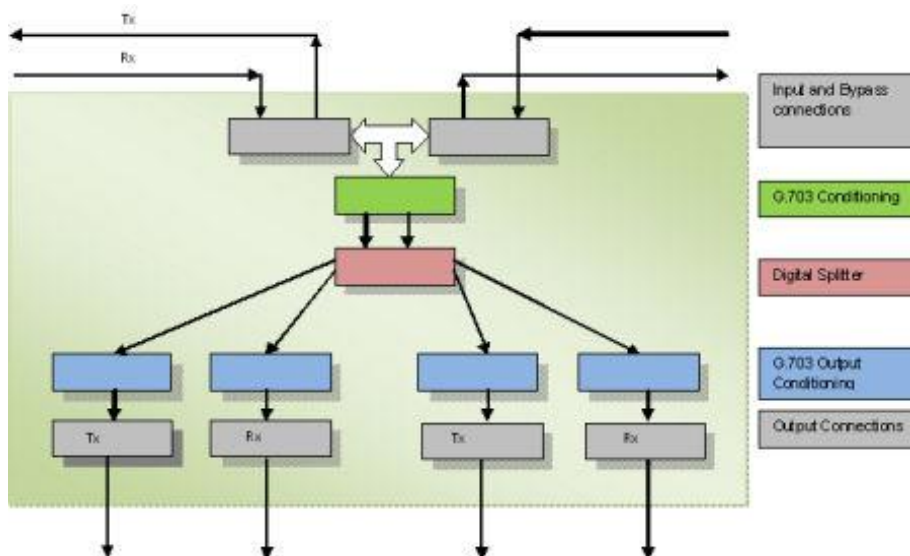
The source stream connection is made through two BNC connectors that are hard-wired in parallel and the original bitstreams pass-through the Splitter without any in-line circuitry or delay.

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-1080 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-2040 is part of the E1SS product range, which also include a programmable Router for E1, monitoring and recording applications.



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*Specifications may be subject to change without notice*

**Specifications****Input***Signal Interface*

E1 compatible with ITU G.703

*Input impedance*

40 k $\Omega$  without supplied external terminator  
75  $\Omega$  with supplied external terminator fitted to the  
bypass BNC connector

*Input amplitude*

$\pm 2.37$  V  $\pm 10\%$  nominal, to -12dB  
 $\pm 5$  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*

75  $\Omega$

*Output amplitude*

$\pm 2.37$  V  $\pm 10\%$

*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*

Minimum: 1  $\mu$ s  
Maximum: 16  $\mu$ s  
Typical: 8  $\mu$ s

**Status Indicators**

Power  
Signal presence

**Input/Output Connections***Data*

BNC

*AC Power*

3-pin IEC

**Power***Supply*

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

**Physical**

1U rackmount chassis

*Dimensions*

482mm x 105mm x 44mm

*Weight*

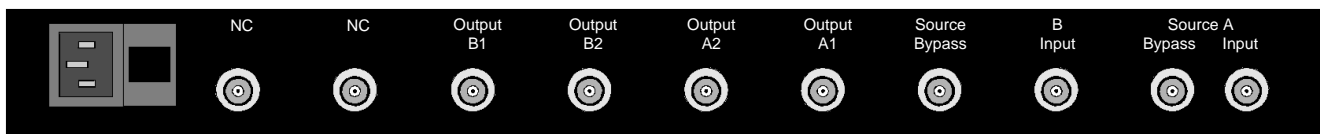
1.6kg

**Environmental***Temperature*

0°C to 70°C

*Relative Humidity*

5% to 95% non-condensing



E1SS-2040 Rear Panel