

D-SPLITTER



1:8 ETI Splitter for DAB/DAB+ Networks



D-SPLITTER creates eight identical outputs from a single DAB Multiplex bit-stream.

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

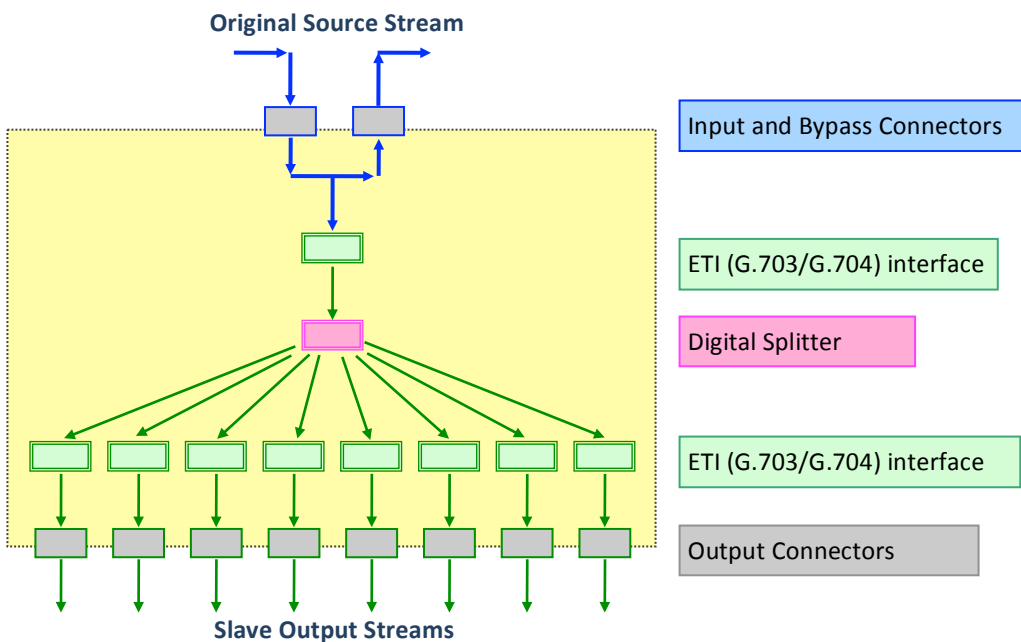
Monitoring, recording and other equipment can be connected or disconnected at the outputs without disturbing the source bit-stream, even when the Splitter is unpowered.

For compatibility with the DAB Ensemble Transport Interface specifications, D-SPLITTER signal input/output interfaces incorporate ITU G.703 compatible receivers/drivers; common-mode line chokes; over-voltage protection and isolation transformers.

D-SPLITTER is AC powered and supplied in a 1U rack-mount case.

Highlights

- Splits 1 ETI input to 8 ETI outputs for distribution and monitoring
- Input by-pass connector
- ETI(NI) and ETI(NA)
- Digital (G.703) input/output interfaces
- Low input-to-output delay and jitter



Specifications

Input

Signal Interface

2,048 kbits/s ETI or STI compatible with ITU G.703

Input Impedance

40 k Ω without supplied external terminator
75 Ω with supplied external terminator fitted to the parallel (bypass) connector

Signal Amplitude

Operating: $\pm 2.37V \pm 10\%$ nominal to -12dB
Maximum: -5V (lower limit)
+5V (upper limit)

Pulse width

230 ns to 260 ns

Input jitter tolerance

14UI @ 750Hz
0.4UI, 10kHz to 100kHz

Input Isolation

Transformer coupled
1500V RMS AC breakdown

Connectors

Two BNC connectors hard-wired in parallel.
All signal connections should all be made with 75 Ω co-axial cable. Recommended cable type: RG179B/U.

Un-powered performance

Applies to the pass-through connection

Crosstalk

Better than -64dB

Residual output

Better than -35dB

Input signal loading

Less than 0.1dB

Output

Signal Interface

2,048 kbits/s ETI or STI compatible with ITU G.703

Output Amplitude

$\pm 2.37V \pm 10\%$

Output Impedance

75 Ω

Pulse width

244 ns nominal

Output jitter attenuation

10dB/decade from 10Hz

Input to Output Delay

Minimum: 1 μ s
Maximum: 16 μ s
Typical: 8 μ s

Output Isolation

Transformer coupled
1500V RMS AC breakdown

Connectors

Eight BNC connectors carry identical output streams
All signal connections should all be made with 75 Ω coaxial cable. Recommended cable type: RG179B/U.

Physical

Chassis

1U rack mount case

Dimensions

482 mm (w) x 44 mm (h) x 105 mm (d)

Weight

1.6kg

Environmental

Temperature

0°C to 70°C

Relative Humidity

5% to 95% non-condensing

Power

Supply

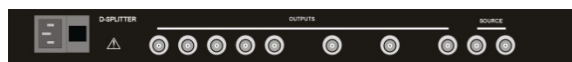
85V -264V, 47Hz - 63Hz, universal input

Connector

IEC 3-pin



Front Panel



Rear Panel

Specifications are subject to change without notice

January 2015

