



One input to eight output E1 Splitter



Amplification and distribution of one incoming 2.048 Mbps, HDB3 coded E1 signal to eight output ports without any modification of data and frame content.

Key Features

- 2,048 Mbps HDB-3 75 ohm coaxial infrastructure
- Transparent distribution of one input to eight independent outputs
- Two E1 Splitter in one 1U height 19" box (option)
- Extended input attenuation range
- Excellent jitter filtering feature
- Simple operation visual control by single front panel lamp
- Simple remote control by two floating contacts
- AIS generation to outputs in case of input signal loss
- Low profile, low power consumption, simple maintenance

E1 Splitter Technical Data

Input parameters

Input connector	BNC Female
Input impedance	75 ohm; coaxial (ITU-T G.703/9)
Code HDB3	HDB3
Nominal bit rate	2.048 Mbps; ± 50 ppm
Attenuation tolerance	min. 13.6 dB @ 1024 kHz; \sqrt{f}
Return loss	51 to 102 kHz: min. 12 dB 102 to 2048 kHz: min. 18 dB 2048 to 3072 kHz: min. 14 dB
Tolerable input jitter and wander	ITU-T G.823 table 16

Output parameters

Output connectors	BNC Female
Output impedance	75 ohm; coaxial (ITU-T G.703/9)
Code	HDB3
Output wave form	ITU-T G.703 Fig 15.
Nominal peak voltage	2.37 V _{op}
Return loss	51 to 102 kHz: min. 6 dB 102 to 3072 kHz: min. 8 dB
Maximum output jitter when the input signal is jitter free	Max 0.05 UI _{pp} (Measuring filter: 20 Hz to 100 kHz)

Transmission parameters

Signal flow from input to outputs	Transparent
Jitter attenuation (filtering) (Test signal 1,5 UI at 10 Hz to 1kHz, 0,2 UI at 10 kHz to 100 kHz)	10 Hz min 3dB, typical 6 dB 100 Hz min 20 dB, typical 32 dB 400 Hz min 30 dB, typical 43 dB 1 kHz min 35 dB typical 50 dB 10 to 100 kHz min 35 dB, typical 50 dB
Signal flow on outputs as LOS on input	AIS signal with clock frequency accuracy of: ± 20 ppm
Signal flow in case of power failure	Input signal bypass to Output-1

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Alarm outputs

Alarm outputs

Two floating contact Max. 60 Vdc; max. 100 mA

Alarm outputs and front panel lamp signs

EVENT	X1 (LOS) CONTACT	X2 (AIS) CONTACT	FRONT PANEL LAMP
No input power	Closed	Closed	Dark
No input E1	Closed	Open	Red
Input is AIS	Open	Closed	Yellow
Input is valid, normal state	Open	Open	Green

Power supply

Input voltage range

38 to 70 Vdc reverse voltage and over voltage protected

Fuse

0.2 A "T"

Power rating

3W (One E1 splitter)

Environmental condition

Operating conditions

EN 300 019-1-3 Class 3.2 (Partly temperature controlled locations).

Operating temperature range

-5 to +45 °C

Relative humidity

5-95%

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Size and weight

Size	1U; 19" (422 x 203 x 44 mm)
Weight	3 kg

Back plane view



PolyNet Ltd. reserves the right to change the specifications for improvement without notice.
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