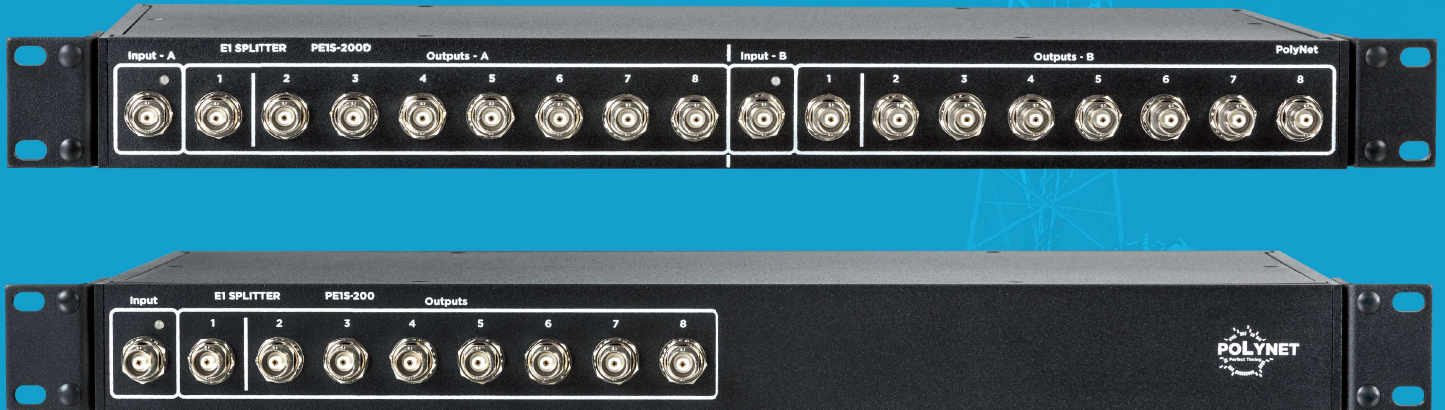


## ■ One input to eight output E1 Splitter



**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.**

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

## TECHNICAL DATA

### Input parameters:

Input connector	BNC Female
Input impedance	75 ohm; coaxial (ITU-T G.703/9)
Code	HDB3
Nominal bit rate	2.048 Mbps; $\pm 50$ ppm
Attenuation tolerance	min. 13.6 dB @ 1024 kHz; $\sqrt{f}$
Return loss	<div>51 to 102 kHz: min. 12 dB</div> <div>102 to 2048 kHz: min. 18 dB</div> <div>2048 to 3072 kHz: min. 14 dB</div>
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 <sub>op</sub>
Return loss	<div>51 to 102 kHz: min. 6 dB</div> <div>102 to 3072 kHz: min. 8 dB</div>
Maximum output jitter when the input signal is jitter free	Max 0.05 UI <sub>pp</sub> (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)	<div>10 Hz min 3dB, typical 6 dB</div> <div>100 Hz min 20 dB, typical 32 dB</div> <div>400 Hz min 30 dB, typical 43 dB</div> <div>1 kHz min 35 dB typical 50 dB</div> <div>10 to 100 kHz min 35 dB, typical 50 dB</div>
Signal flow on outputs as LOS on input	AIS signal with clock frequency accuracy of: $\pm 20$ ppm
Signal flow in case of power failure	Input signal bypass to Output-1

## TECHNICAL DATA

### Alarm outputs:

Alarm outputs:	Two floating contact Max. 60 Vdc; max. 100 mA
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### 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 %

### Size and weight:

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



## TECHNICAL DATA

### ■ Back plane view



PolyNet Ltd. reserves the right to change the specifications for improvement without notice.  
Issue: E1 Splitter-BNC Feb 2016.