



**Features**

- Read-out of pulse data from digital signals
- Insertion of pulse data into digital signals
- Pulse conditioning
- AES/EBU format for audio data
- Separate on/off control of pulse feed-in for both channels
- Galvantic separation of pulse input and digital part

**Delivery Items**

- PSB II (Code 1329)  
Pulse Splitter Box II
- Instruction for use

**Accessories (not included in the delivery)**

- PSH I.1 (Code 1364)  
Power supply unit for PSB II
- CBB I.2 (Code 1175-2)  
Cable BNC <-> BNC, 2 m (78.74")
- CXX II.3 (Code 5177-3)  
Cable AES/EBU, XLR male <-> XLR female, 3-pin, 2,95 m (116.14")
- CXX II.1 (Code 5178-1)  
Cable AES/EBU, XLR male <-> XLR female, 3-pin, 1 m (39.37")

**DATA SHEET**

**PSB II (Code 1329)**

*Pulse Splitter Box II*

**Overview**

With the Pulse Splitter Box PSB II pulse data contained in the 16th bit of a digital audio data stream can be read out. They are made available as separate signals at a BNC output.

Moreover, PSB II allows to insert external pulse signals into the 16th bit of a data stream. The feed-trough of 24 bit data is also possible.

The pulse inputs of PCB II have a signal conditioning. Any shape of signal, offset voltages up to  $\pm 7 V$ , which are compensated automatically, and amplitudes starting from  $60 mV_{SS}$  can be fed in the pulse input.

Additionally, the pulse inputs and the digital part of PSB II are galvanically separated.



Rear view of PSB II

## ***Technical data***

### ***Operating conditions***

Voltage supply:	5 V $\pm$ 5 % at max. via PIN 2 (5 V) and 1 (Ground) 9 - 16 V at max. via PIN 4 (12 V) and 1 (Ground)
Current consumption:	200 mA (5 V), 230 mA (9 - 16 V)
Working temperature:	0 to 50°C (32°F to 122°F)

### ***AES / EBU Input***

Connector:	XLR socket
Norm:	AES3, IEC60958, EIAJ CP1201, galvanically separated
Sampling frequencies:	32 kHz, 44.1 kHz, 48 kHz
Bit rate:	16 and 24 bit

### ***AES / EBU Output***

Connector:	XLR socket
Norm:	AES3, IEC60958, EIAJ CP1201, galvanically separated
Sampling frequencies:	32 kHz, 44.1 kHz, 48 kHz (synchronized with input)
Bit rate:	16 and 24 bit

### ***PULSE Input (2x)***

Connector:	BNC
Level:	$U_{ss} > 60$ mV (adjustable by factory)
Automatic offset compensation:	$\pm 7$ V
Max. voltage:	$\pm 16$ V, galvanically separated
Impedance:	47 kOhm
Input capacity:	100 pF
Signal form:	Any shape of signal (Rectangle, Sinus, Triangle, ...)
Pulse back:	$> 2,6$ $\mu$ s
Bandwidth (at Pulse-Pause ratio 1:1):	$> 0,5$ Hz $< 19$ kHz

### ***PULSE Output***

Connector:	BNC
Level:	TTL Pegel, galvanically separated
Impedance:	1 kOhm

All inputs and outputs are short-term protected from excess voltage.

All outputs are permanently proof against short-circuit.

### ***Displays (2x)***

Pulse input activated:	LED active
Pulse input, pulse detected:	Flashing in division ratio (1:32), when pulse is detected

### ***Mechanical properties***

Weight:	750 g (1.65 lb)
Dimensions (W x D x H):	170 mm x 89 mm x 44 mm (6.69" x 3.5" x 1.73")