



DWC08 – DWC18

**Wordclock distribution amplifier with optional video
reference locked wordclock generator**

A Synapse® product

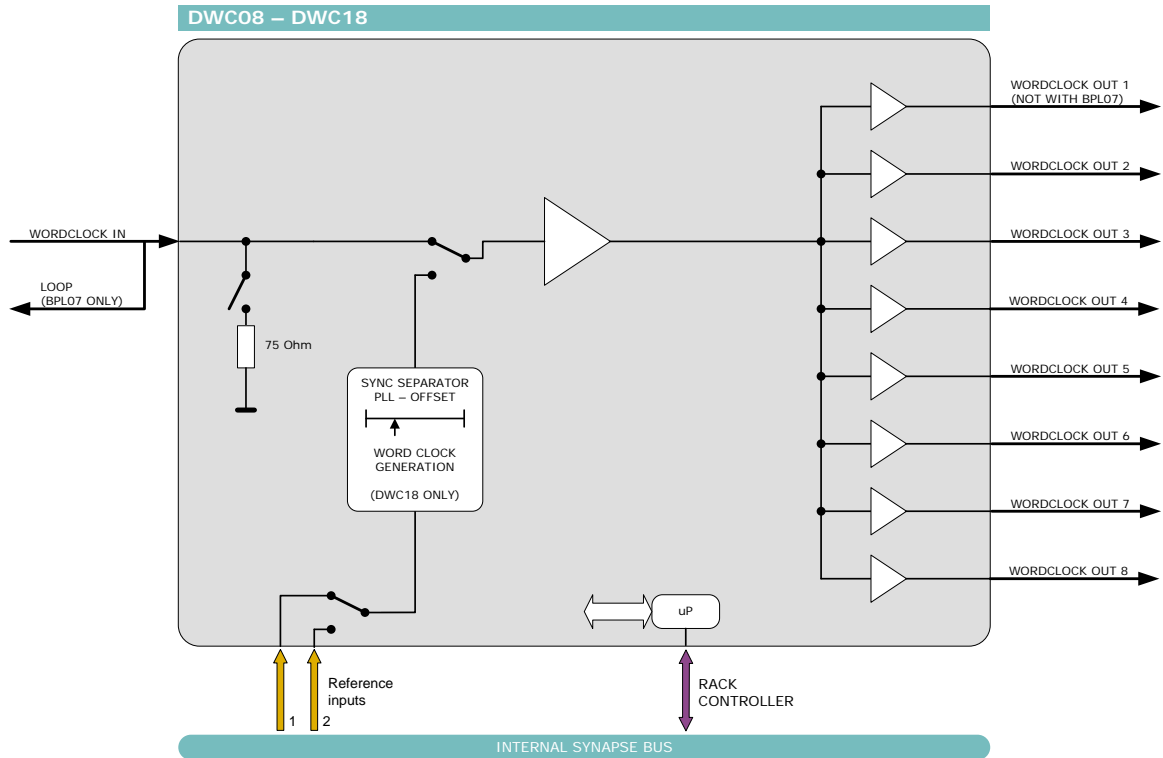
The logo for Synapse, written in a light blue, cursive script font with a slight shadow effect.

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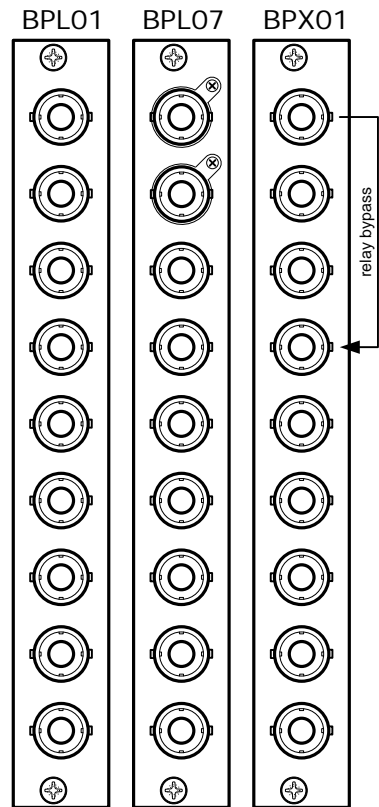
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Block schematic & I/O panel



- WORDCLOCK INPUT
- WORDCLOCK OUTPUT 1 (LOOP w BPL07 only)
- WORDCLOCK OUTPUT 2
- (RELAY BYPASS w BPX01) WORDCLOCK OUTPUT 3
- WORDCLOCK OUTPUT 4
- WORDCLOCK OUTPUT 5
- WORDCLOCK OUTPUT 6
- WORDCLOCK OUTPUT 7
- WORDCLOCK OUTPUT 8



Features

The DWC08/18 is a dedicated wordclock distribution amplifier. It accepts a wordclock input (with loop through if a BPL07 is used) and outputs 8 (7) individually buffered replicas of the input.

The DWC18 has a unique feature in the possibility to source the card with a B&B or tri-level reference through the internal Synapse frame distribution rail and use this source to generate a reference locked wordclock. This feature makes the DWC18 a true broadcast enabled wordclock generator

- 8 outputs (7 with BPL07)
- High impedance or 75 Ohms terminated input (dip-switch)
- 32 to 192 kHz compatibility
- Signal present indication
- Wordclock generation from video reference with phase timing delay offset (DWC18 only)
- Frequency indication
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)

Applications

- Generic wordclock distribution or video reference locked generation

Ordering information

Modules:

- **DWC08:** Wordclock DA 1 in, 8 out
- **DWC18:** Wordclock DA DA 1 in, 8 out with video locked wordclock generation

Standard I/O:

- **BPL01_DWC18:** I/O panel for DWC08/18
- **BPL07_DWC18:** I/O panel for DWC08/18 with loop through

Relay bypass I/O:

- **BPX01_DWC18:** I/O panel for DWC08/18 with relay bypass

Specifications

Wordclock input

Connector	BNC
Standard	SDIF-2 (TTL compatible)
Number of inputs	1
Frequency	32 kHz to 192 kHz
Impedance	High imp. or 75 Ohms (internally terminated)
Level	0V to 10V

Wordclock output

Number of outputs	8 (7 with BPL07)
Connector	BNC
Level	5V or 10V nominal
Frequency	Equal to input

Miscellaneous

Weight	Approx. 250g
Operating temperature	0 °C to +50 °C
Dimensions	137 x 296 x 20 mm (HxWxD)

Electrical

Voltage	+24V to +30V
Power	<5 Watts