



SDN08-SDR08

**SD-SDI (N=non) reclocking distribution amplifier
(ASI/DVB compatible)**

A Synapse® product

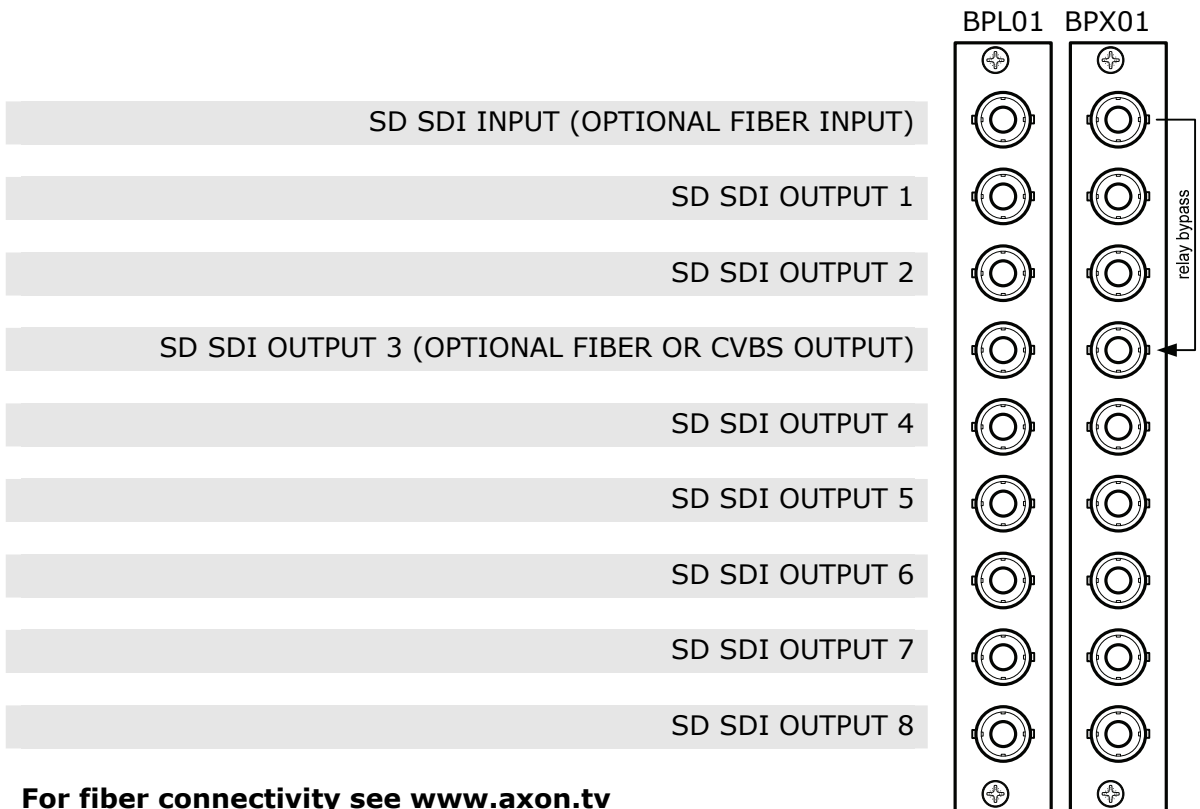
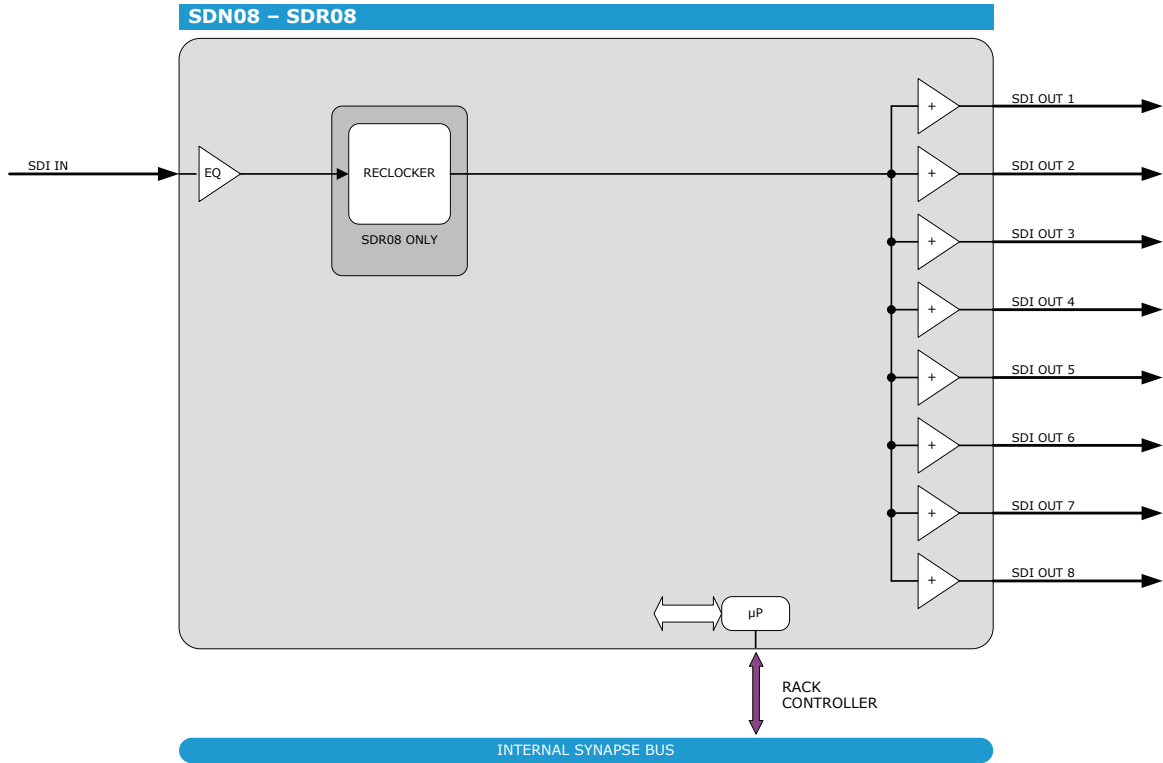
Synapse

COPYRIGHT ©2010 AXON DIGITAL DESIGN BV

ALL RIGHTS RESERVED

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM WITHOUT THE PERMISSION OF
AXON DIGITAL DESIGN BV.

Block schematic & I/O panel



For fiber connectivity see www.axon.tv

Features

The SDR & SDN series provide a range of distribution amplifiers with flexible input and output variations. The SDR08 reclocks the input signal.

The SDN08/SDR08 are 1 to 8 distribution amplifiers compatible with ASI/DVB

- 8 standard or reclocked outputs
- Input carrier detection
- Reclocking compatible with:
 - 143Mb/s
 - 177Mb/s
 - 270Mb/s
 - 360Mb/s
- ASI/DVB compatible
- Guaranteed output on BNC 4 with the BPX01 electromechanical by-pass relay
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)
- Optional 1 fiber input (replacing 1 SDI input) or 1 fiber output (replacing 1 SDI output) on I/O panel
- Optional 1 CVBS output (replacing 1 SDI output) on I/O panel

Applications

- The SDN08 and SDR08 can be used as a generic DA
- ASI/DVB distribution
- Dual Fiber I/O transmitter/receiver

Ordering information

Modules:

- **SDR08:** SD-SDI reclocking distribution amplifier (ASI/DVB compatible)
- **SDN08:** SD-SDI non-reclocking distribution amplifier (ASI/DVB compatible)

Standard I/O :

- **BPL01_SDR08:** I/O panel for SDR08
- **BPL01_SDN08:** I/O panel for SDN08
- **BPX01_SDR08:** I/O panel for SDR08 with relay bypass
- **BPX01_SDN08:** I/O panel for SDN08 with relay bypass

Fiber outputs:

- **BPL01T_FC/PC_SDR08:** I/O panel for SDR08 with fiber transmitter on FC/PC
- **BPL01T_FC/PC_SDN08:** I/O panel for SDN08 with fiber transmitter on FC/PC
- **BPL01T_SC_SDR08:** I/O panel for SDR08 with fiber transmitter on SC
- **BPL01T_SC_SDN08:** I/O panel for SDN08 with fiber transmitter on SC

Fiber inputs:

- **BPL01R_FC/PC_SDR08:** I/O panel for SDR08 with fiber receiver on FC/PC
- **BPL01R_FC/PC_SDN08:** I/O panel for SDN08 with fiber receiver on FC/PC
- **BPL01R_SC_SDR08:** I/O panel for SDR08 with fiber receiver on SC
- **BPL01R_SC_SDN08:** I/O panel for SDN08 with fiber receiver on SC

CVBS outputs:

- **BPL01C_SDR08:** I/O panel for SDR08 with CVBS output
- **BPL01C_SDN08:** I/O panel for SDN08 with CVBS output

Specifications

Serial Video Input

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio
Number of Inputs	1
Equalization	Automatic to 300m @ 270Mb/s with Belden 1694A or equivalent cable
Return Loss	> 15dB up to 270MHz

SD Serial Video Output

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio
Number of Outputs	8
Signal Level	800mV nominal
DC Offset	0V \pm 0.5V
Rise/Fall Time	800ps nominal
Overshoot	< 10% of amplitude
Return Loss	> 15dB up to 270MHz

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