



21X08

**Dual channel basic integrity checking probe
with switch-over function**

A Synapse® product

Synapse

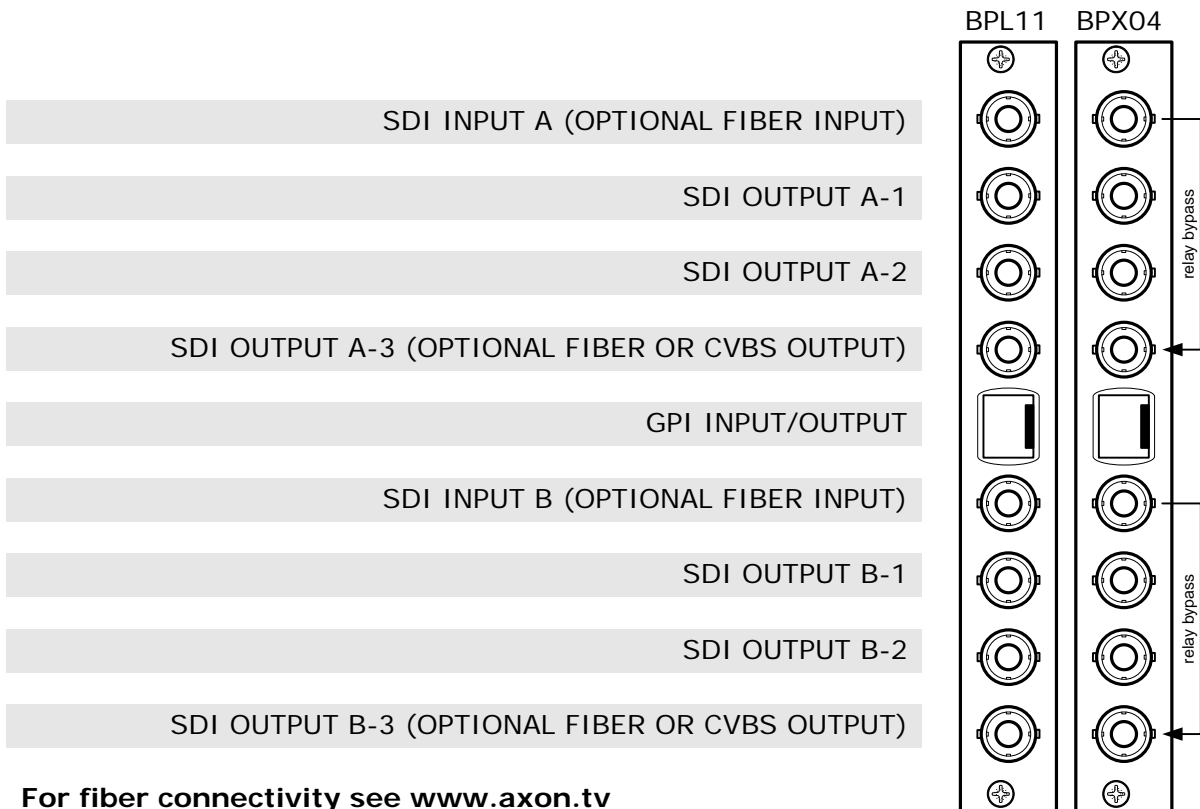
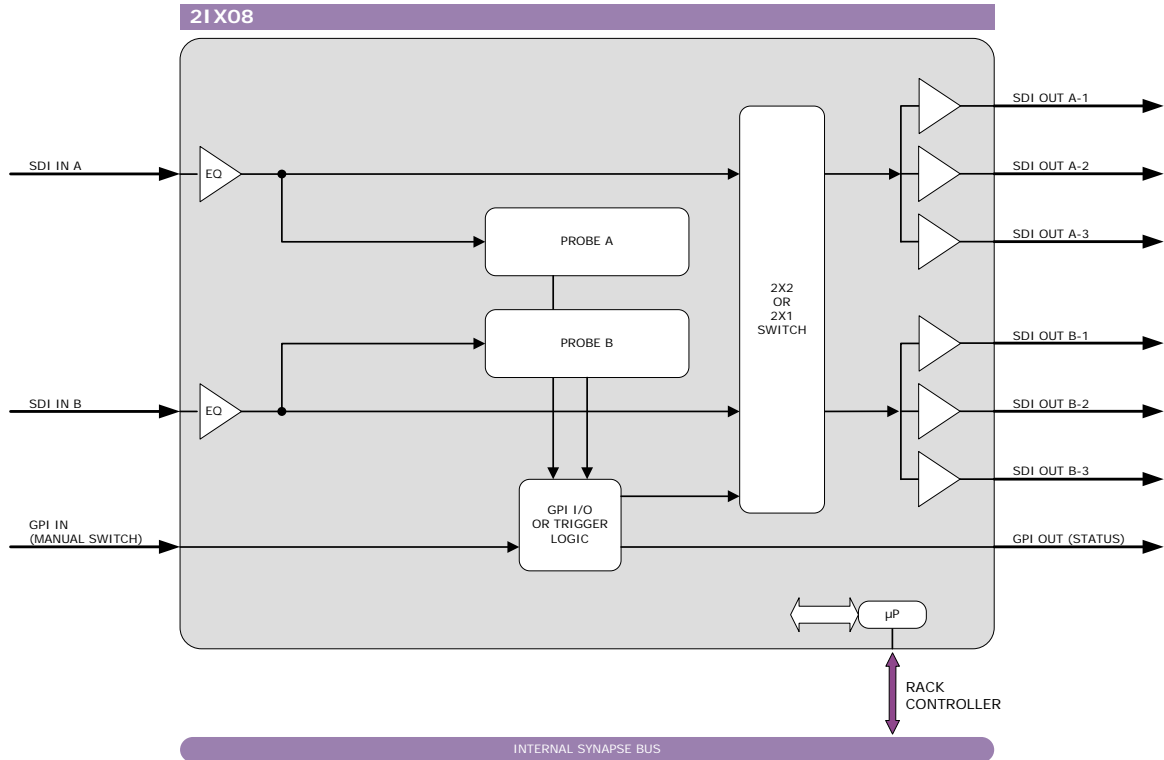


COPYRIGHT © 2011 AXON DIGITAL DESIGN BV

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 2IX08 is a dual channel basic signal integrity monitor with switch-over function. The difference with the 2IX09 and 2IX10 is that these have an enhanced range of probing functions and 2 built-in frame-synchronizers for clean switching. The switch function can be triggered by any of the integrity controls or by GPI. Each output has a fan-out of 3 and all outputs can be sourced from the same input. The module has the following features:

- SDI carrier detect
- EDH detection
- TRS validation
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)
- Optional 2 fiber inputs (replacing 2 SDI inputs) or 2 fiber outputs (replacing 2 SDI outputs) on I/O panel
- Optional 2 CVBS outputs (replacing 2 SDI outputs) on I/O panel

Applications

- The 2IX08 can be used as station output card, and ingest quality control card or a generic 2 x 2 switch
- Generic probing with automatic back-up switching

Ordering information

Module:

- **2IX08:** Dual channel basic integrity checking probe with switch-over function

Standard I/O:

- **BPL11_2IX08:** I/O panel for 2IX08
- **BPX04_2IX08:** I/O panel for 2IX08 with relay bypass

Fiber outputs:

- **BPL11T2_FC/PC_2IX08:** I/O panel for 2IX08 with 2 fiber transmitters on FC/PC
- **BPL11T2_SC_2IX08:** I/O panel for 2IX08 with 2 fiber transmitters on SC

Fiber inputs:

- **BPL11R2_FC/PC_2IX08:** I/O panel for 2IX08 with 2 fiber receivers on FC/PC
- **BPL11R2_SC_2IX08:** I/O panel for 2IX08 with 2 fiber receivers on SC

CVBS output:

- **BPL11C2_2IX08:** I/O panel for 2IX08 with 2 CVBS outputs

Specifications

Serial Video Input

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio
Number of Inputs	2 (1 per channel)
Equalization	Automatic to 300m (100m with BPX04) @ 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	3 per channel or 6 in 2x1 mode
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	<9 Watts