



ASI 10

**Dual channel ASI/DVB monitor with 2x2 output switch
and dual fan out per channel**

A Synapse® product

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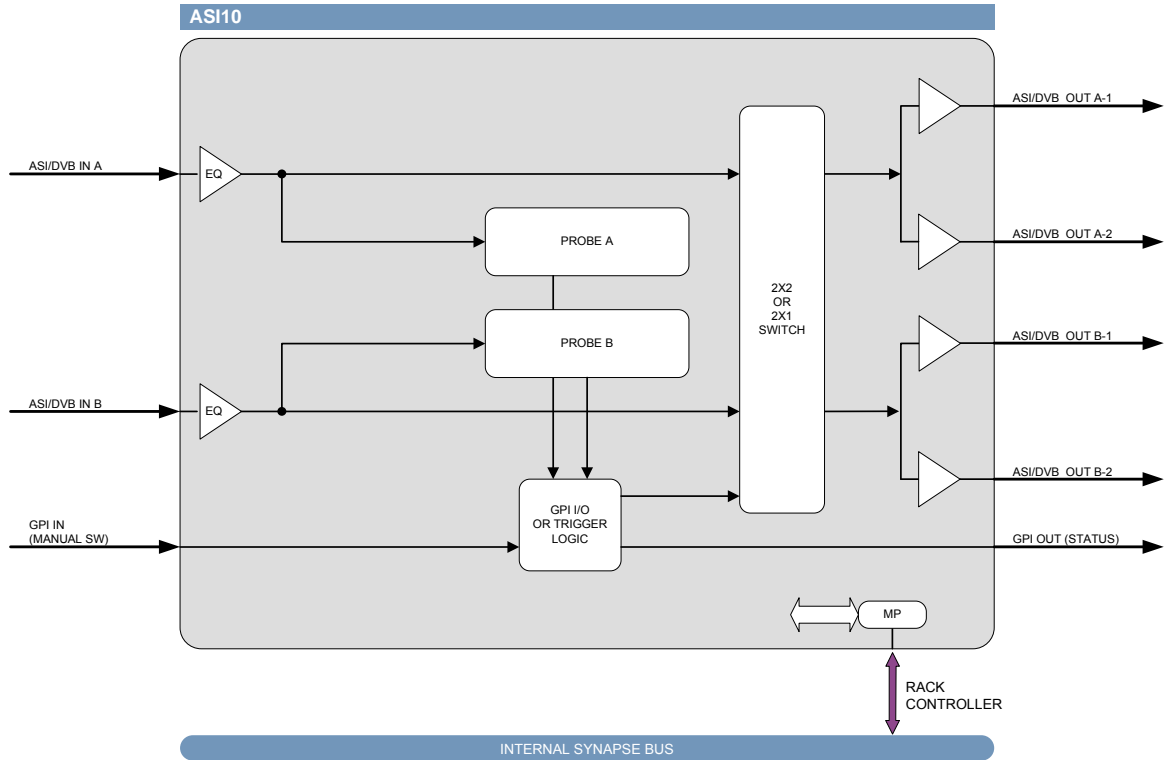
DESIGNED FOR
ASI/DVB

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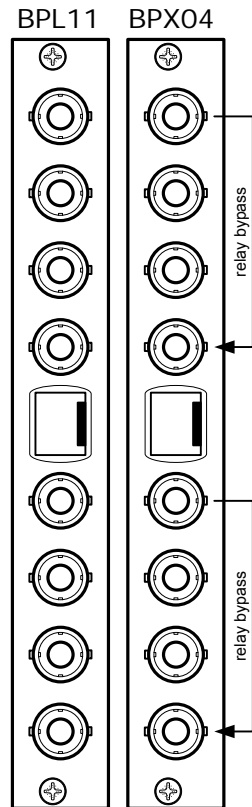
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Block schematic & I/O panel



- ASI/DVB INPUT A (OPTIONAL FIBER INPUT)
- ASI/DVB OUTPUT A-1
- ASI/DVB OUTPUT A-2 (OPTIONAL FIBER OUTPUT)
- GPI INPUT/OUTPUT
- ASI/DVB INPUT B (OPTIONAL FIBER INPUT)
- ASI/DVB OUTPUT B-1
- ASI/DVB OUTPUT B-2 (OPTIONAL FIBER OUTPUT)



Features

The ASI110 is a dual channel ASI/DVB integrity checker with a 2x2 output switch. Each output has a dual fan-out for distribution of the signal

- 2x2 or 2x1 (4 outputs) mode
- Monitor ASI/DVB streams and triggering of corresponding alarms. These can be used to trigger a switch over.
 - Loss of Transport Stream sync bytes
 - Alarm trigger: sync acquisition, fail
 - No Transport Stream
 - Alarm trigger: data, no data
 - Transport Stream-rate
 - Alarm trigger with lower and upper limit breach
 - Data-rate
 - Alarm trigger with lower and upper limit breach
 - Null packets / Active data ratio
 - Alarm trigger:
 - Null packets > preset
 - Null packets < preset
 - Data packets per second > preset
 - Data packets per second < preset
 - Number of PIDs in the stream
 - Alarm trigger:
 - Total number of unique PIDs < preset
 - Total number of unique PIDs > preset
- Monitoring only
 - ASI data link mode
 - Empty
 - Byte
 - Packet
 - Burst
 - 188/204 mode
 - 188 Mode
 - 204 Mode
 - Indeterminate
 - Number of PIDs in the stream
 - Total number of PIDs per second
 - Total number of unique PIDs per second
- 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 BNC inputs) or 2 fiber outputs (replacing 2 BNC outputs) on I/O panel

Applications

- Generic ASI/DVB integrity monitoring and backup switching

Ordering information

Module:

- **ASI 10:** Dual channel ASI/DVB monitor with 2x2 output switch

Standard I/O:

- **BPL11_ASI 10:** I/O panel for ASI10
- **BPX04_ASI 10:** I/O panel for ASI10 with relay bypass

Fiber outputs:

- **BPL11T2_FC/PC_ASI 10:** I/O panel for ASI10 with 2 fiber transmitters on FC/PC
- **BPL11T2_SC_ASI 10:** I/O panel for ASI10 with 2 fiber transmitters on SC

Fiber inputs:

- **BPL11R2_FC/PC_ASI 10:** I/O panel for ASI10 with 2 fiber receivers on FC/PC
- **BPL11R2_SC_ASI 10:** I/O panel for ASI10 with 2 fiber receivers on SC

Specifications

DVB/ASI serial video input

Standard	ISO/IEC 13818-1, BS EN 50083-9, EN 300 468, ATSC Doc. A/65C
Number of inputs	2 (1 per channel)
Equalization	Automatic up to 300m @ 270Mb/s or 100m @ 270Mb/s with BPX04 (ADD9420270012) with Belden 1694A or equivalent cable
Return loss	> 15dB up to 270MHz

DVB/ASI Serial Video Output

Standard	ISO/IEC 13818-1, BS EN 50083-9, EN 300 468, ATSC Doc. A/65C
Number of outputs	2 per channel or 4 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