



**HDR07**

**HD/SD reclocking distribution amplifier**

**A Synapse® product**

*Synapse*

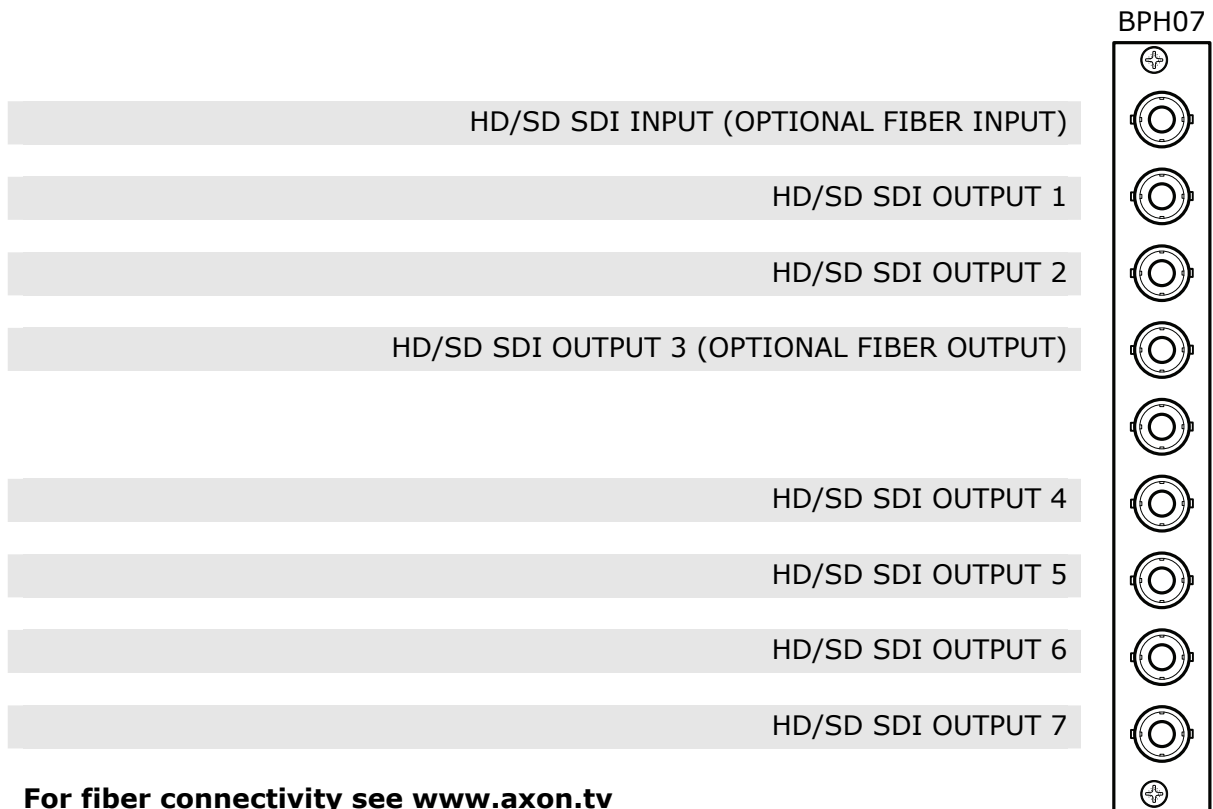
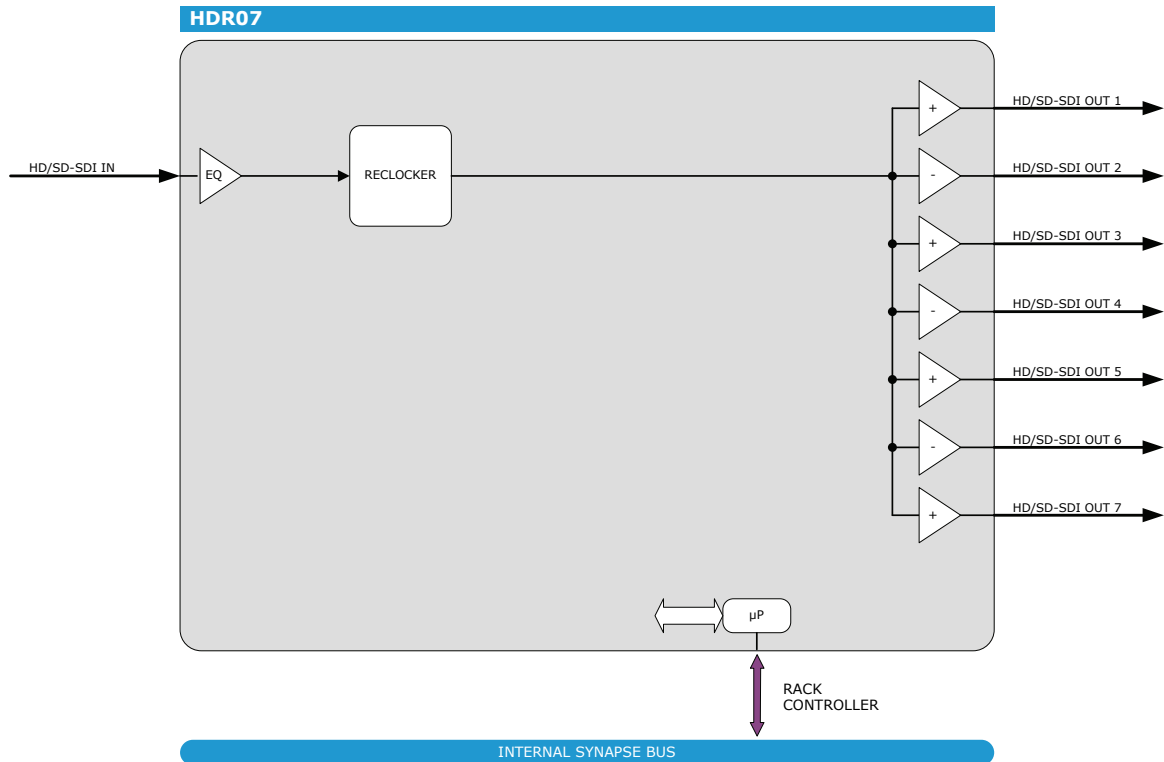


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Block schematic & I/O panel



For fiber connectivity see [www.axon.tv](http://www.axon.tv)

## Features

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The HDR07 is an HD/SD-SDI reclocking distribution amplifier

- Compatible with:
  - 143 Mbit/s
  - 177 Mbit/s
  - 270 Mbit/s
  - 360 Mbit/s
  - 540 Mbit/s
  - 1485 Mbit/s
- Inverting and non inverting outputs
- Bypass function of the reclocker for non-standard frequencies
- 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

## Applications

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The HDR07 can be used as a generic wideband DA

## Ordering information

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### Module:

- **HDR07:** HD/SD reclocking distribution amplifier

### Standard I/O:

- **BPH07\_HDR07:** I/O panel for HDR07

### Fiber outputs:

- **BPH07T\_FC/PC\_HDR07:** I/O panel for HDR07 with fiber transmitter on FC/PC
- **BPH07T\_SC\_HDR07:** I/O panel for HDR07 with fiber transmitter on SC

### Fiber inputs:

- **BPH07R\_FC/PC\_HDR07:** I/O panel for HDR07 with fiber receiver on FC/PC
- **BPH07R\_SC\_HDR07:** I/O panel for HDR07 with fiber receiver on SC

## Specifications

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### HD/SD Serial Video Input

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<b>Standard</b>	SD and HD SDI: SMPTE 292M, SMPTE 259M
<b>Number of Inputs</b>	1
<b>Connector</b>	BNC
<b>Equalization</b>	Automatic to 100m @ 1.5Gb/s with Belden 1694 (or equivalent)
<b>Return Loss</b>	> 15dB up to 1.485GHz

### Serial Video Output

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<b>Number of Outputs</b>	7
<b>Connector</b>	BNC
<b>Signal Level</b>	800mV nominal
<b>DC Offset</b>	0V $\pm$ 0.5V
<b>Rise/Fall Time</b>	200ps nominal
<b>Overshoot</b>	< 10% of amplitude
<b>Return Loss</b>	> 15dB up to 1.485GHz
<b>Wideband Jitter</b>	< 0.2UI

### Miscellaneous

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<b>Weight</b>	Approx. 250g
<b>Operating Temperature</b>	0 °C to +50 °C
<b>Dimensions</b>	137 x 296 x 20 mm (HxWxD)

### Electrical

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<b>Voltage</b>	+24V to +30V
<b>Power</b>	4 Watts