

1x4 SD/HD/3G SDI distribution amplifier



Lightware DA4-3GSDI is a multirate one Input four Output serial distribution amplifier. Input equalization provides compensation of 100 m (3G-SDI) cable loss, while Outputs are reclocked and independently buffered. Front panel LEDs gives a quick information about the DA status: power, data rate and PLL lock status. The unit has a built-in power supply and housed in a metal enclosure for long term reliability and hard environment operation.

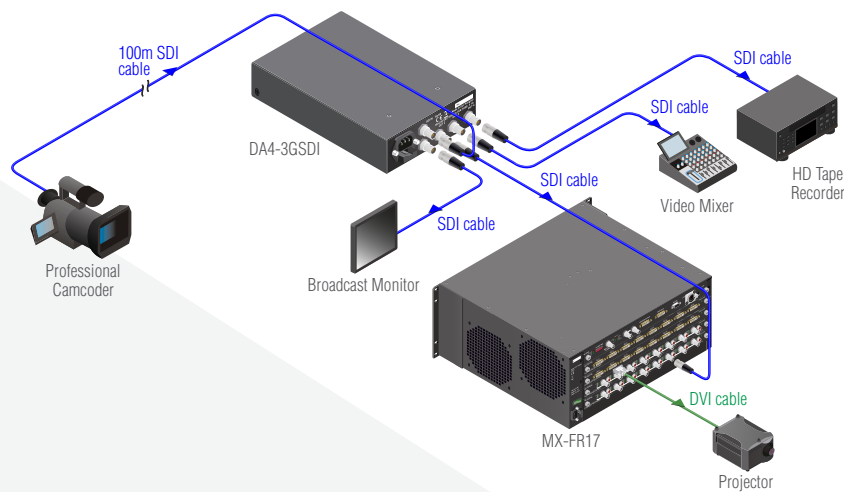


Part No: 9132 0001

Highlight features

- 3G, HD, SD data rates
- Input cable compensation
- Robust metal housing for usage in hard environment

Stand alone application



Applications

- Rental and staging
- Military and GIS
- Medical
- Scientific visualizations

Features

- 3G, HD, SD data rates
- Cable compensation:
SD-SDI – 400 m
HD-SDI – 200 m
3G-SDI – 100 m
- Internal, built-in power supply
- Metal enclosure
- Rack mountable

Specifications

Data rates:	SD (270 Mb/s); HD (1.48 Gb/s); 3G (2.97 Gb/s)
Input cable compensation:	SD max. 400 m; HD max. 200 m; 3G max. 100m*
Power:	110 / 230 V, 3 VA
Power consumption:	1.7 W (typ) 2.1 W (max)
Dimensions:	110 W x 181 D x 42 H mm
Weight:	890 g
Compliance:	CE
Warranty:	3 years

*Measured with Belden 1694A cable.

Connectors

Input:	1 x BNC*
Output:	4 x BNC*
Power:	IEC

*75 Ohm termination.

Optional accessory



Rack shelf (Part No: 5240 0269)

The 1U high rack shelf provides mounting holes for fastening two half-rack or four quarter-rack sized units.

Front and rear view



SDI Comparison Chart

Name	Standard	Bit rates (data transfer rate)	Sample video formats
SD-SDI Standard Definition SDI	SMPTE 259M	270 Mbps (most common) 360 MBps (widescreen) 143 Mbps, 177 Mbps (NTSC/PAL)	480i, 576i, 625i widescreen 270 Mbps supports 525-line interlaced video at a 59.94 Hz field rate (29.97 Hz frame rate) and 625-line, 50 Hz interlaced video. Highly compatible with NTSC and PAL-B/G/D/K/I systems.
ED-SDI Enhanced Definition SDI	SMPTE 344M	540 Mbps Dual-link 270 Mbps	480p, 576p, 525p, 625p
HD-SDI High Definition SDI	SMPTE 292M	1.485 Gbps 1.485/1.001 Gbps (supporting frame rates of 59.94 Hz, 29.97 Hz and 23.98 Hz to be compatible with NTSC systems) Commonly collectively referred to as nominal bit rate of 1.5 Gbps	1080/60i, 1080/59.94i, 1080/50i, 1080/30p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/60p, 720/59.94p, 720/50p, 1080psf
3G-SDI 3 Gbps SDI This single cable link will replace dual-link HD-SDI in future	SMPTE 424	2.970 Gbps 2.970/1.001 Gbps Commonly collectively referred to as nominal bit rate of 3 Gbps	1080/60p, 1080/59.94p, 1080/50p