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FLASHLINK

DA-3GHD-2x4

Multi-rate 3G/HD-SDI distribution amplifier

The Flashlink DA-3GHD-2x3 / DA-3GHD-2x4 is a multi bit-rate distribution amplifier that provides high performance media distribution for signal formats from 19.4Mbps to 2970Mbps in studio and broadcast applications.
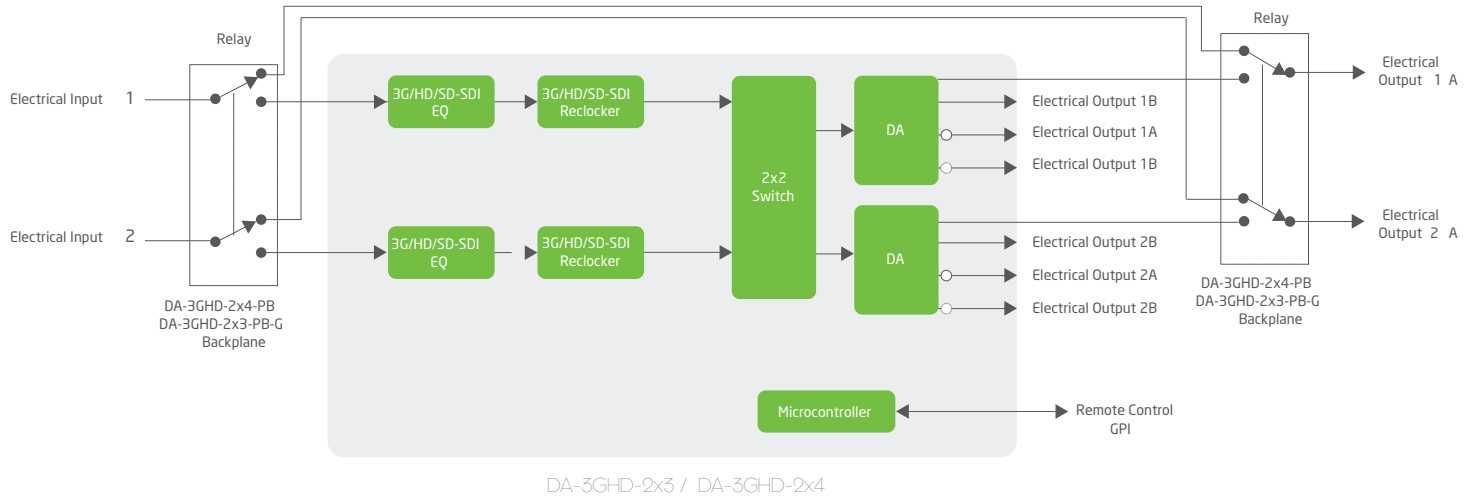
The unit is configurable for cable equalizing and reclocking of DVB-ASI, SD-SDI, HD-SDI and 3G-SDI signal formats and as a 1 x 8/6 distribution amplifier (DA). A passive bypass function (included with backplane board versions C2 and C4) enables full redundancy in case of mains or card failure.

Applications

- Studio infrastructure
- Head-end distribution
- Video distribution
- Video protection

Key features

- Dual 1x4 (1x3) distribution amplifier
- Single 1x8 (1x6) distribution amplifier
- 2x2 reclocked router with DA
- GPI I/O
- Passive loop-through on backplane
- On board LED for status
- On board DIP for configuration

DA-3GHD-2x3 / DA-3GHD-2x4

Product description

The Flashlink DA-3GHD-2x4 is a multi bit-rate distribution amplifier module providing high performance media distribution for various signal formats from 19.4Mbps up to 2970Mbps. The unit can be configured to do cable equalizing and reclocking of SMPTE 424M, SMPTE 292M and SMPTE 259M signal formats.

The two inputs typically provide automatic cable equalizing for up to 70 meters of cable (Belden 1694A at 2970Mbps) with a total of 6 or 8 reclocked outputs. The DA-3GHD-2x4 will detect HD and SD rates and automatically switch to the correct output slew-rate. The reclockers support the bit-rates 270Mbps, 1483.5Mbps, 1485Mbps 2967Mbps and 2970Mbps. For other rates, the reclockers automatically switch to bypass mode, and the DA-3GHD-2x4 will work as a non-reclocking distribution amplifier with cable equalizers.

The DA-3GHD-2x4 also supports reclocking of DVB-ASI at 270Mbps, enabling all possible rates including empty transport streams with only K28.5 padding packets. 4 of the outputs are non-inverting and suitable for DVB-ASI.

The unit has two 1x4/3 distribution amplifiers that can be individually configured to listen on either input, giving 4 different options, input 1 to all outputs, input 2 to all outputs, inputs 1 to first group with 2 on second group, or input 2 to first group and 1 to second group. There is also included a passive bypass function (with backplane board C2 and C4) from both inputs to non-inverted outputs with less than 15 m loss of cable length (enables full redundancy in case of mains failure).

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General

Power	4.5W/5V, 1.2W/15V
User interface	Status LED, Status GPI, configuration DIP switches Web interface and SNMP through Multicon controller
Operating temp.	0 – 40C

Supported standards

	SMPTE-259M, SMPTE-292, SMPTE-274M, SMPTE-291M, SMPTE-296M, SMPTE-299M, SMPTE-424M, EN50083-9, SMPTE-RP165, SMPTE-352M

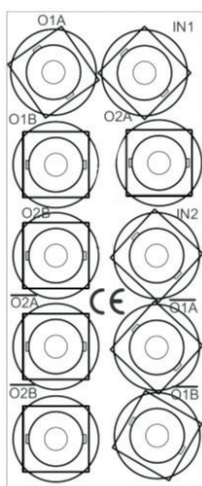## Electrical SDI input

No of inputs	2, relay protected with -PB option
Signal type	3G-SDI, HD-SDI, SD-SDI, DVB-ASI 19.4Mbps – 2970Mbps
Cable equalization	Automatic 70m @ 3G-SDI w/ Belden 1694A 100m @ HD-SDI w/ Belden 1694A 300m @ SD-SDI w/ Belden 8281
Connector	BNC, 75 Ohm

Electrical SDI output

No of outputs	8 (6 -G option)
Signal polarity	4 non-inverting, 4 inverting
Level	800mV +/-10%
Connector	BNC, 75 Ohm

Ordering options

19240 DA-3GHD-2x4	2x4 dist. amp. for SD/HD/3G-SDI
19241 DA-3GHD-2x4-PB	2x4 dist. amp. for SD/HD/3G-SDI w/PB
19243 DA-3GHD-2x3-PB-G	2x3 dist. amp. for SD/HD/3G-SDI w/GPI and PB

DA-3GHD-2x4

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