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FLASHLINK

3GHD-CHO-2x4-PB

Intelligent change-over with 1x8 distribution amplifier and passive input protection

The Flashlink 3GHD-CHO-2x4 is a multi bit-rate change-over providing intelligent input switching in studio and broadcast applications.

The unit provides the ability to change between inputs based on input signal integrity, and features a 1x8 distribution amplifier of its output.

A passive relayed bypass of both inputs enables full redundancy in case of mains or card failure.

Applications

- Intelligent change-over switching
- High level of integration
- Always signal thru-put

Key features

- Intelligent change-over based upon signal integrity
- 2x1 change-over with 1x8 (1x6) DA
- 2x2 reclocked router with DA
- GPI I/O
- Passive loop-through on backplane
- On board LED for status
- On board DIP for configuration
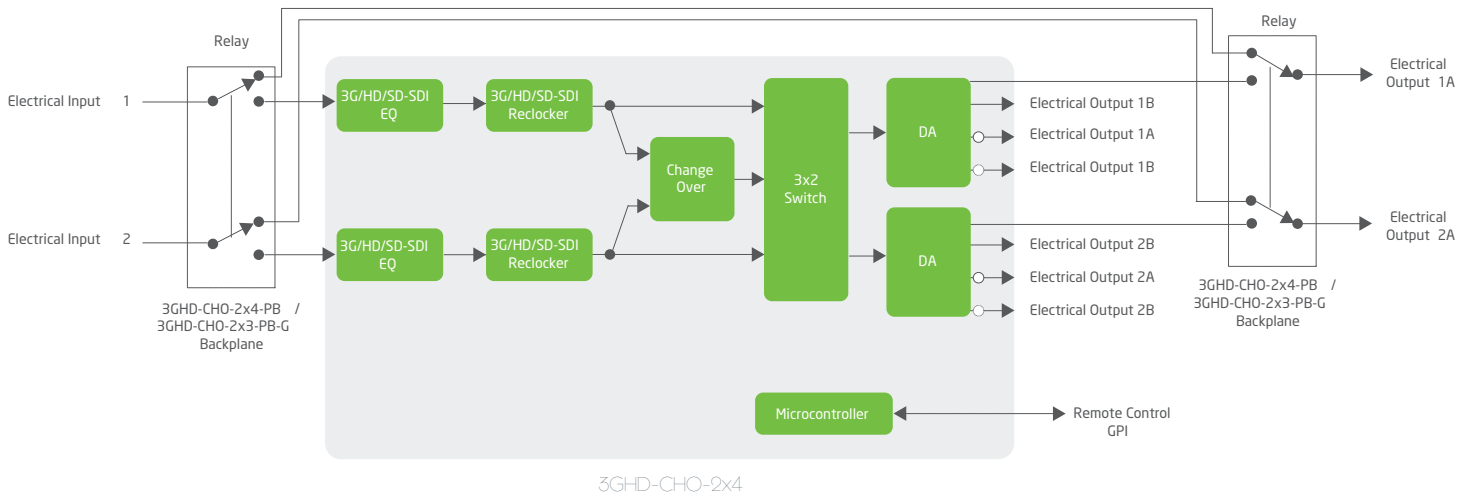
Product description

The Flashlink 3GHD-CHO-2x4 is a multi bit-rate intelligent change-over module with distribution amplifier 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 included intelligent change-over feature gives the ability to change input based on input signal loss, loss of lock, EDH errors or a combination of the above.

The two inputs typically provide automatic cable equalizing for up to 70 meters of cable (Belden 1694A at 2970Mbps) with a total of 8/6 reclocked outputs. The 3GHD-CHO-2x4 will detect 3GHD, 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 3GHD-CHO-2x4 will work as a non-reclocking distribution amplifier with cable equalizers.

The 3GHD-CHO-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 can be configured as a 1x8/6 distribution amplifier including any of the input ports.

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).

The 3GHD-CHO-2x4 is designed for all distribution purposes in studio, duplication and broadcast applications.

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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

| 19425 3GHD-CHO-2x4	3GHD-SDI 2x4 change-over with DA
19427 3GHD-CHO-2x4-PB	3GHD-SDI 2x4 change-over with DA w/passive bypass
19431 3GHD-CHO-2x3-PB-G	3GHD-SDI 2x3 change-over with DA w/passive bypass and GPI

Backplane selection

The following backplanes are available, selection is based upon functionality. Please be aware that –G versions can not be used with N-Box, the Flashlink, one module, desktop box.
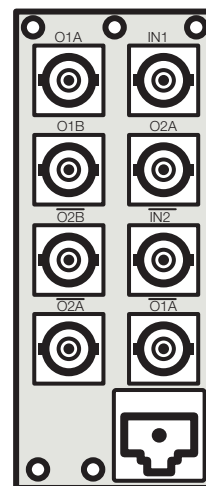
Product	Type	No. of outputs	GPI I/O	Relay (passive loop through)
3GHD-CHO-2x4	Version C1	8	No	No
3GHD-CHO-2x4-PB	Version C2	8	No	Yes
3GHD-CHO-2x3-G	Version C3	6	Yes	No
3GHD-CHO-2x3-PB-G	Version C4	6	Yes	Yes
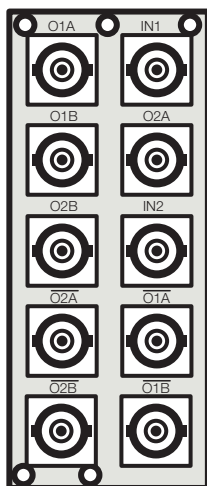
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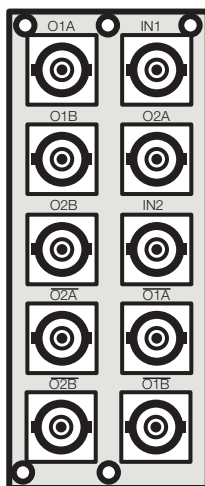
3GHD-CHO-2x4-PB

3GHD-CHO-2x3-PB-G

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