

IQSDA30

Dual-channel 3G/HD/SD-SDI Reclocking Distribution Amplifier with RollCall

Extremely space efficient solution offering dual inputs with three outputs per input in a single-width package.

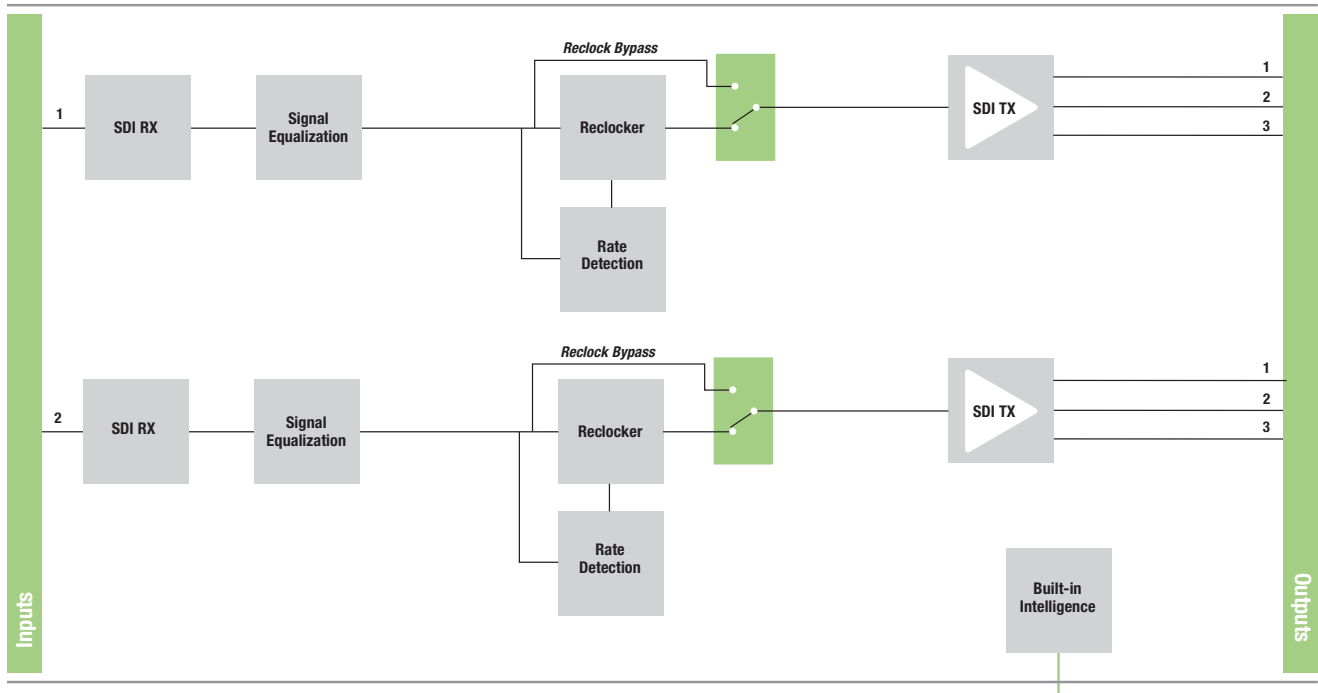
The IQSDA30 from Grass Valley provides dual inputs with three outputs per input for distribution of HD-SDI 3 Gb/s, 1.5 Gb/s or 270 Mb/s SD-SDI signals in a single-width package. Its 80m 3G, 180m HD input equalization performance and non-reclocking distribution of wideband signals make it ideal for all distribution applications.

Why should you choose this module?

- The IQSDA30 is extremely space efficient, providing an incredible density of HD/SD-SDI outputs and distribution channels at 32 per rack unit and 10.6 per rack unit respectively
- Useful for critical installation thanks to outstanding input equalization capability

KEY FEATURES

- Dual-channel intelligent 3 Gb/s SDI, HD-SDI and SD-SDI reclocking distribution amplifier
- Will distribute DVB-ASI and other wideband signals
- Equalizes up to 80m at 3 Gb/s, 180m at 1.5 Gb/s and more than 350m at 270 Mb/s when using Belden 1694A cable
- Standards supported:
 - 3G-HD to SMPTE ST 424
 - HD-SDI to SMPTE ST 292
 - SD-SDI to SMPTE ST 259-C
 - DVB-ASI
- RollCall monitoring allows all signal paths to be managed
- Extremely compact — up to 32 channels in 3 RU — for use where space is at a premium



Block Diagram for IQSDA3047-1B3

Network Intelligence, Control & Monitoring

SPECIFICATIONS

Inputs and Outputs

Signal Input

SDI inputs: 2x
 Input cable length:
 Up to 80m Belden 1694A @ 3 Gb/s
 Up to 180m Belden 1694A @ 1.5 Gb/s
 >350m Belden 1694A @ 270 Mb/s

Signal Outputs

SDI outputs: 3x per input

Controls

Indicators

Power: OK (Green)
 CPU: OK (Green flashing)
 Input 1: OK (Green), Bypass (Orange), Loss (Red)
 Input 2: OK (Green), Bypass (Orange), Loss (Red)

RollCall Functions

Input 1 (2) select: Auto, 3G, HD, SD, DVB-ASI, Bypass (reclocking off)
 Input status: Present, Loss/Unknown, Data Rate
 Logging:
 Input 1 (2) Type
 Input 1 (2) Data Rate
 Input 1 (2) Present
 Input 1 (2) Error
 Input 1 (2) Loss
 RollTrack controls: On/Off, Index, Source, Address, Command, Status, Sending
 RollTrack outputs:
 Unused
 Input 1 (2) Present
 Input 1 (2) Rate Unknown
 Input 1 (2) Loss
 Input 1 (2) 3G
 Input 1 (2) HD
 Input 1 (2) SD

Other Controls

User memories: Name, save and recall 16 user memories

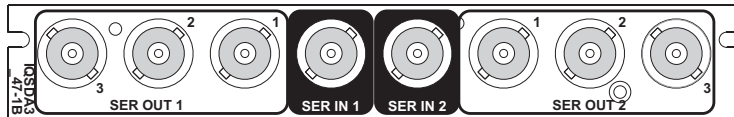
General Specifications

Electrical:
 3 Gb/s SDI, SMPTE ST 424
 1.5 Gb/s HD-SDI, SMPTE ST 292
 270 Mb/s SDI, SMPTE ST 259-C / DVB-ASI
 Connector/format: BNC/75Ω panel jack on standard IQ connector panel
 Return loss:
 >-15 dB (270 Mb/s, 1.5 Gb/s)
 >-10 dB (3 Gb/s)
 Output jitter:
 SD-SDI 0.2 UI (10 Hz) / 0.2 UI (1 kHz)
 3G/HD-SDI 1.0 UI (10 Hz) / 0.2 UI (100 kHz)
Power Consumption
 Module power consumption:
 3 PR Max (B Frames)
 3 PR Max with relay rear (B frames)

ORDERING

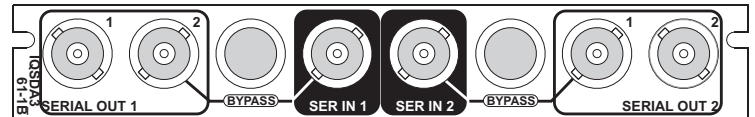
IQSDA3047-1A3, IQSDA3047-1B3

Dual-channel 3G/HD/SD-SDI reclocking distribution amplifier. 2 inputs, 3 outputs per input.



IQSDA3061-1B3

Dual-channel 3G/HD/SD-SDI reclocking distribution amplifier with relay input bypass. 2 inputs, 2 outputs per input.



For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.



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