

IQSDA34

Triple Channel 3G/HD/SD-SDI Reclocking Distribution Amplifier with RollCall

The IQSDA34 provides three inputs with 4 outputs per input for distribution of 1080p 3 Gbit/s SDI, HD-SDI 1.5 Gbit/s or 270 Mbit/s SD-SDI signals in a double width package. Its 70m 3G, 140m HD-SDI input equalization performance and non re-clocking distribution of wide-band signals makes it ideal for all current distribution applications.

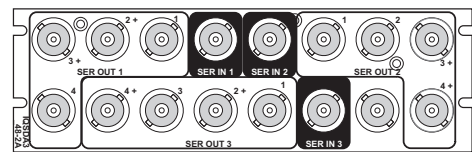
Features

- Triple channel Intelligent 3G-SDI, HD-SDI and SD-SDI re-clocking distribution amplifier
- Equalizes up to 70m at 3 Gbit/s, 140m at 1.5 Gbit/s and 350m at 270 Mbit/s when using Belden 1694A cable
- Standards supported:
 - 1080p SDI to SMPTE424M
 - HD-SDI to SMPTE292M
 - SD-SDI to SMPTE259M-C
- Switchable option to connect channels together producing 1 input to 12 outputs, or 2 inputs with 8 and 4 outputs respectively
- RollCall monitoring allows all signal paths to be managed

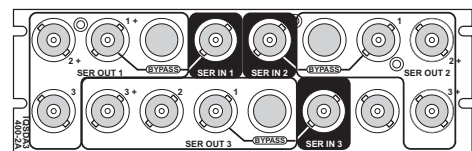
Why should you choose this module?

- The IQSDA34 is extremely space efficient providing 4 outputs per input and a density of 24 channels in 3U
- Operation at SMPTE 424M data rates allows future proof system design
- Flexible output switching allows the module to adapt should distribution requirements change

Order codes

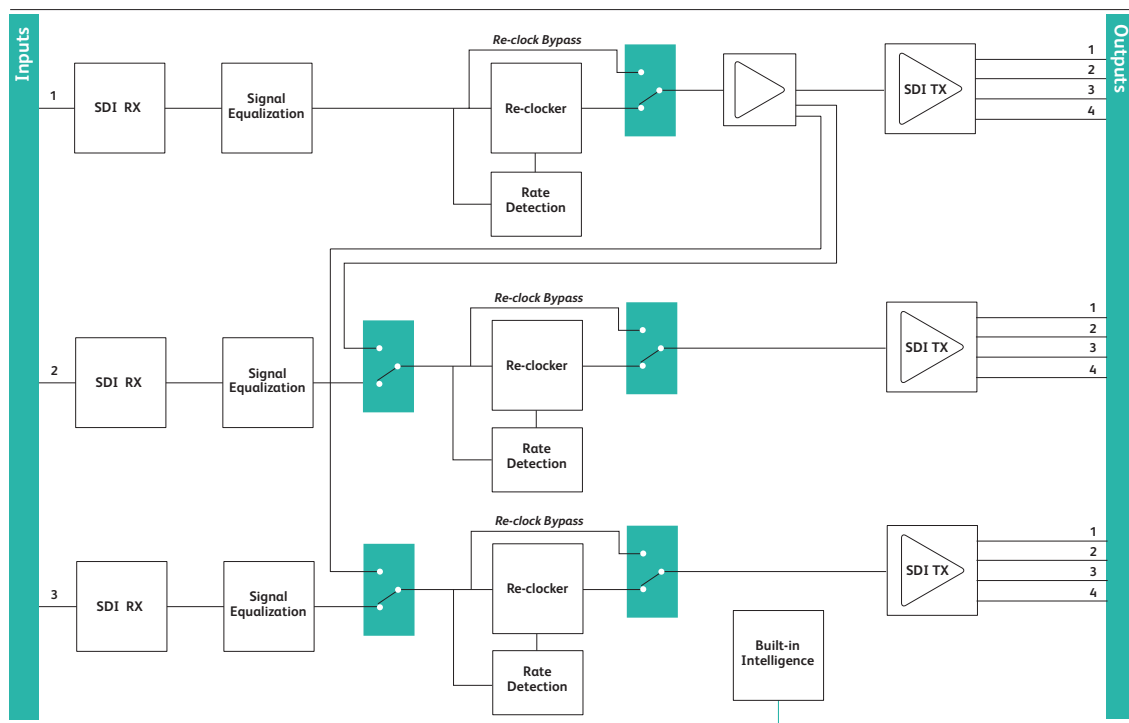


IQSDA3448-2A3, IQSDA3448-2B3
Triple Channel 3G/HD/SD-SDI Reclocking Distribution Amplifier. 3 inputs, 4 outputs per input.



IQSDA3400-2A3, IQSDA3400-2B3
Triple Channel 3G/HD/SD-SDI Reclocking Distribution Amplifier with relay input bypass. 3 inputs, 3 outputs per input.

For more details on enclosure types please refer to Frames and Hardware Section.



Block Diagram for IQSDA3448-2A3

Network Intelligence, Control & Monitoring

IQSDA34

Triple Channel 3G/HD/SD-SDI Reclocking Distribution Amplifier with RollCall

Technical Specification

Inputs and Outputs

Signal Input

SDI input	3 x
Input cable length	Up to 70m Belden 1694A @ 3 Gbit/s Up to 140m Belden 1694A @ 1.5 Gbit/s Up to 350m Belden 1694A @ 270 Mbit/s

Note: When using mixed HD and SD inputs it is recommended that cable lengths do not exceed the HD specification of 140m.

Signal Outputs

SDI outputs	x 4 per input
ASI Compatible Outputs	
	IQSDA3448-2A/B - Serial out 1/2, 1/3, Serial out 2/3, 2/4, Serial out 3/2, 3/4
	IQSDA3400-2A/B - Serial out 1/1, 1/2, Serial out 2/2, 2/3, Serial out 3/3

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)
Input 3	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, 3) Type Input 1 (2, 3) Data Rate Input 1 (2, 3) Present Input 1 (2, 3) Error Input 1 (2, 3) Loss
RollTrack controls	On/Off, Index, Source, Address, Command, Status, Sending
RollTrack outputs	Unused Input 1 (2, 3) Present Input 1 (2, 3) Rate Unknown Input 1 (2, 3) Loss Input 1 (2, 3) 3G Input 1 (2, 3) HD Input 1 (2, 3) SD

Other Controls

User memories	Name, save and recall 16 user memories
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Specifications

Electrical	3Gbit/s SDI, SMPTE 424M 1.5Gbit/s HD-SDI, SMPTE 292M 270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI
Connector / format	BNC/ 75ohm panel jack on standard SAM connector panel
Return loss	>-15dB (270Mbit/s, 1.5Gbit/s) >-10dB (3Gbit/s)
Output jitter	SD-SDI 0.2 UI (10Hz) / 0.2 UI (1KHz) 3G/HD-SDI 1.0 UI (10Hz) / 0.2 UI (100KHz)

Power Consumption

Module power consumption:	
IQSDA3448-2A3	5W Max (A frames)
IQSDA3448-2B3	5 PR Max (B Frames)
IQSDA3400-2A3	6W Max (A frames)
IQSDA3400-2B3	5 PR Max (B Frames)