

IQSDA41

12G-SDI Re-clocking Distribution Amplifier with RollCall

The IQSDA41 is a single or dual channel SDI distribution amplifier for UHD-1 12Gbit/s, and HD 3 Gbit/s, 1.5 Gbit/s signals providing up to 9 equalized and re-clocked outputs of the input in a single width package. Its 60m 12G, 90m 3G, 180m HD input equalization performance and non re-clocking distribution of wide-band signals make it ideal for all distribution applications.

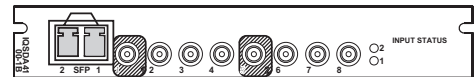
Features

- Intelligent UHD-1 12Gbit/s, HD 3 Gbit/s or 1.5 Gbit/s and SD-SDI re-clocking distribution amplifier
- Configurable as 1 input to 9 outputs, or 2 inputs with 4 outputs per input
- Equalizes up to 60m at 12Gbit/s, 90m at 3 Gbit/s and 180m at 1.5 Gbit/s when using Belden 1694A cable
- Standards supported:
 - 12G UHD-1 to SMPTE 2082
 - 3G-HD to SMPTE424M
 - HD-SDI to SMPTE292M
- RollCall monitoring allows all signal paths to be managed

Why should you choose this module?

- Space efficient design with 9 outputs of the input in single width, allowing 16 modules in 3RU or 4 in 1RU
- Useful for critical installation thanks to outstanding input equalization capability
- Operation at SMPTE 2082 12Gbit/s data rates allows future proof system design
- Built in Fiber option allows increased receive and transmit distances for long reach applications

Order codes



IQSDA4100-1B4

12G/3G/HD-SDI Re-clocking Distribution Amplifier. 1 input, 7 outputs or 2 inputs 3 outputs per input, 2 optical inputs or 2 optical outputs.



IQSDA4101-1B4

12G/3G/HD-SDI Re-clocking Distribution Amplifier. 1 input, 9 outputs or 2 inputs 4 outputs per input

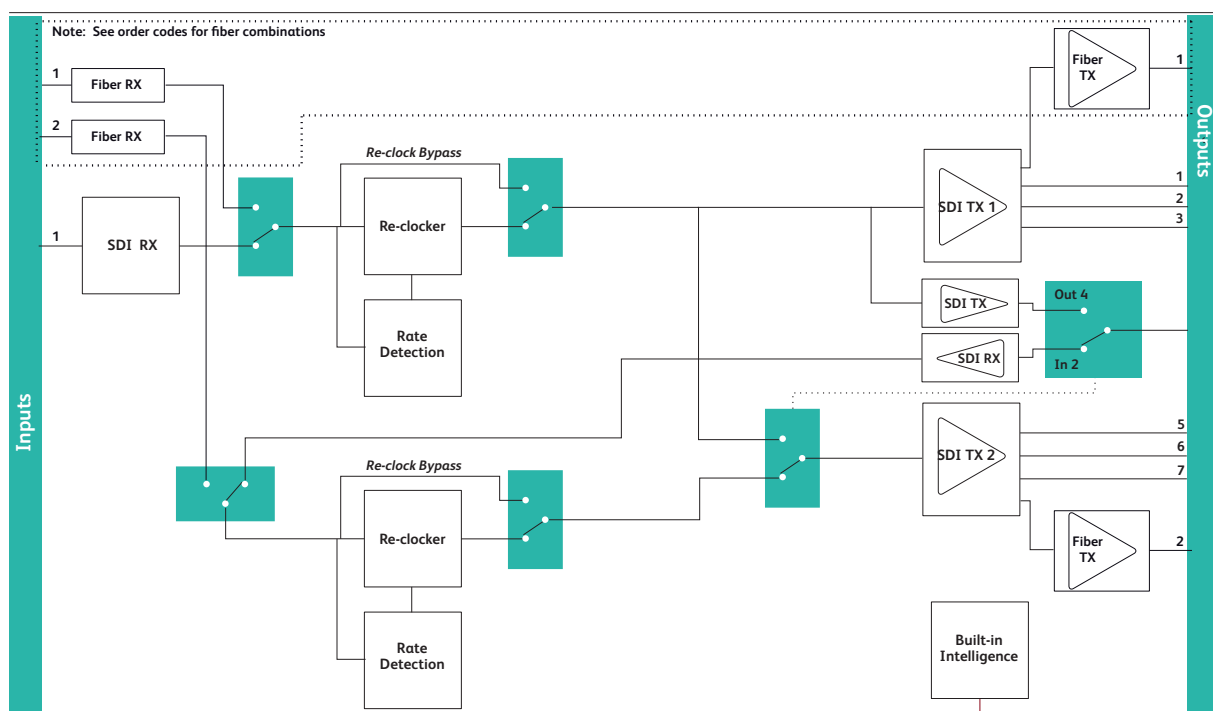
SFP Options:

FC1-13TR-12G Fiber transceiver 1 x 12G Rx, 1 x 12G Tx (1310nm)

FC1-13T2-12G Fiber transmitter 2 x 12G Tx (1310nm)

FC1-13R2-12G Fiber receiver 2 x 12G Rx

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



Block Diagram for IQSDA4100-1B4

Technical Specification

Inputs and Outputs

Signal Input

SDI input	1/2 x
Input cable length	Up to 60m Belden 1694A @ 12 Gbit/s Up to 90m Belden 1694A @ 3 Gbit/s Up to 180m Belden 1694A @ 1.5 Gbit/s

Signal Outputs

SDI outputs	x 9/4
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Controls

Indicators

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

RollCall Functions

Configuration	1, 2 channels
Input select	Auto, 12G, 3G, HD, Bypass (reclocking off)
Input status	Present, Loss/Unknown, Data Rate
Logging	Input Type Input Data Rate Input Present Input Error Input Loss
RollTrack controls	On/Off, Index, Source, Address, Command, Status, Sending
RollTrack outputs	Unused Input Present Input Rate Unknown Input Loss Input 12G Input 6G Input 3G Input HD

Other Controls

User memories	Name, save and recall 16 user memories
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Specifications

Electrical	12Gbit/s SDI, SMPTE 2082-1 3Gbit/s SDI, SMPTE 424M 1.5Gbit/s HD-SDI, SMPTE 292M
Connector / format	HD-BNC/ 75ohm panel jack on standard SAM connector panel

Power Consumption

Module power consumption	5 PR (B Frames)
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