

IQSDA42

Multichannel 12G-SDI Reclocking Distribution Amplifier with Remote Control

High-density, flexible configuration with fiber support for 4K UHD signal distribution making it ideal for long distance applications.

The IQSDA42 from Grass Valley is a configurable single-, dual- or quadchannel SDI distribution amplifier for 4K UHD 12 Gb/s and 6 Gb/s, HD 3 Gb/s and 1.5 Gb/s, and SD 270 Mb/s signals providing up to 19 equalized and reclocked outputs of the input in a single-width package.

When combined with the IQH4B 4 RU IQ enclosure, IQSDA42 provides industry-leading packing density with 80 channels and 320 outputs available.

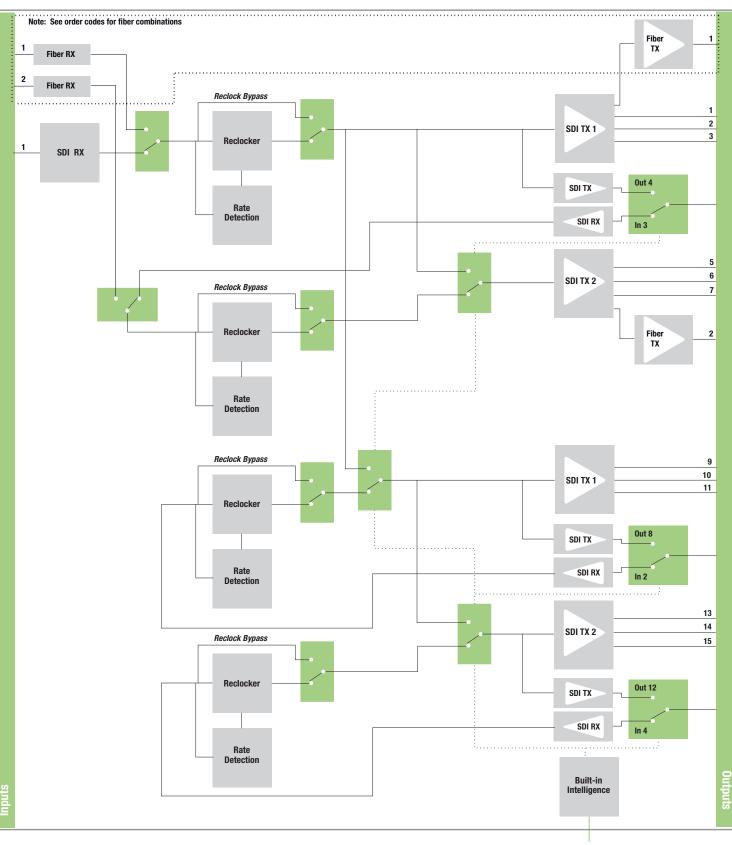
Why should you choose this module?

- Extremely space-efficient and flexible design with up to 19 outputs of a single input, or four channels of signal distribution in a single-width solution
- Operation at SMPTE ST 2082 12 Gb/s data rates allows future-proof system design
- Built-in fiber option allows increased receive and transmit distances for long reach applications

KEY FEATURES

- Intelligent 4K UHD 12 Gb/s and 6 Gb/s, HD 3 Gb/s and 1.5 Gb/s and SD-SDI re-clocking distribution amplifier
- Configurable as one input to 19 outputs, or two inputs with nine outputs per input, or four inputs with four outputs per input
- Equalizes up to 60m at 12 Gb/s, 55m at 6 Gb/s, 90m at 3 Gb/s, 175m at 270 Mb/s and 180m at 1.5 Gb/s when using Belden 1694A cable
- Standards supported:
 12G-SDI to SMPTE ST 2082
 6G-SDI to SMPTE ST 2081
 3G-SDI to SMPTE ST 424
 HD-SDI to SMPTE ST 292
- SD-SDI to SMPTE ST 259

• GV Orbit control and monitoring compatible, with standard logging and reporting features



Block Diagram for IQSDA4200-1B4

Network Intelligence, Control & Monitoring

SPECIFICATIONS

Inputs and Outputs

Signal Input

SDI input: 1/2/4x Input cable length:

Up to 60m Belden 1694A @ 12 Gb/s Up to 55m Belden 1694A @ 6 Gb/s Up to 90m Belden 1694A @ 3 Gb/s Up to 180m Belden 1694A @ 1.5 Gb/s Up to 175m Belden 1694A @ 270 Mb/s

Signal Outputs

SDI outputs: 19/9/4x

Controls

Indicators

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

Remote Control Functions

Configuration: 1, 2, 4 channels Input select: Auto, 12G, 6G, 3G, HD, SD, 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 User Memory 1-16 Input x OK Input x I OST Input x 12G-SDI Input x 6G-SDI Input x 3G-SDI Input x HD-SDI Input x SD-SDI Input x Unknown

Other Controls

User memories: Name, save and recall 16 user memories

DATASHEET

General Specifications

Electrical: 12 Gb/s SDI, SMPTE ST 2082-1 6 Gb/s SDI, SMPTE ST 2081 3 Gb/s SDI, SMPTE ST 424 1.5 Gb/s HD-SDI, SMPTE ST 292 270 Mb/s SD-SDI, SMPTE ST 259 Connector/format: HD-BNC/75 Ω panel jack on standard Grass Valley connector panel

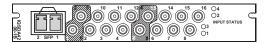
Power Consumption

Module power consumption: IQSDA4200-1B4: 9 PR (B Frames) IQSDA4201-1B4: 8.5 PR (B Frames)

ORDERING

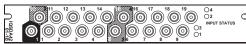
IQSDA4200-1B4

Multichannel 12G/6G/3G/HD/SD reclocking distribution amplifier. 1 input, 15 outputs, 2 inputs 7 outputs per input or 4 inputs 3 outputs per input. 1 optical input and 1 optical output.



IQSDA4201-1B4

Multichannel 12G/6G/3G/HD/SD reclocking distribution amplifier. 1 input, 19 outputs, 2 inputs 9 outputs per input or 4 inputs 4 outputs per input.



SFP Options

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

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

FC1-13R2-12G

Fiber receiver 2x 12G Rx For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.

WWW.GRASSVALLEY.COM

Join the Conversation at **GrassValleyLive** on Facebook, Twitter, YouTube and **Grass Valley** on LinkedIn.

🗾 grass valley



www.grassvalley.com/blog 📁

This product may be protected by one or more patents. For further information, please visit: **www.grassvalley.com/patents**. Grass Valley[®], GV[®] and the Grass Valley logo are trademarks or registered trademarks of Grass Valley USA, LLC, or its affiliated companies in the United States and other jurisdictions. Grass Valley products listed above are trademarks or registered trademarks of Grass Valley USA, LLC or its affiliated companies, and other parties may also have trademark rights in other terms used herein.

Copyright © 2019, 2021 Grass Valley Canada. All rights reserved. Specifications subject to change without notice.

DS-PUB-2-0772B-EN