IQSDA10/11

Reclocking SD-SDI Distribution Amplifier

The IQSDA10/11 provides up to fifteen re-clocked equalized outputs operating with 270 Mbit/s SDI signals, or seven non-inverting outputs suitable for 270 Mbit/s DVB-ASI signals. Dual channel version available with three outputs per input.

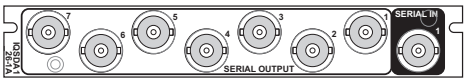
Features

- Performs equalization and re-clocking of serial 4:2:2 and DVB-ASI signals
- Provides up to 15 buffered outputs for SDI signals and 7 for DVB-ASI signals
- Input equalizer and re-clocking allows for use as a line receiver/ distribution amplifier
- Input signal loss indicator
- Single and dual channel versions available
- RollCall remote control and monitoring

Why should you choose this module?

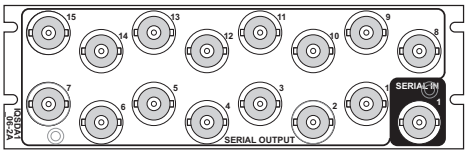
- Re-clocking distribution amplifier ensures there are no jitter problems in the system
- Dual channel version ideal for monitoring or space constrained applications
- Input equalization ensure maximum cable lengths can be used
- Can be used in either serial 4:2:2 or DVB-ASI systems
- Fan-out can be either 7 or 15, depending on the chosen module version
- RollCall remote control and monitoring

Order codes

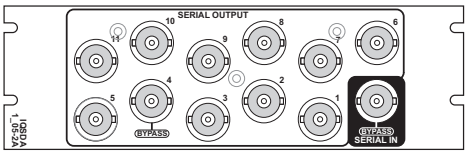


IQSDA1001-1A
Reclocking SDI/DVB-ASI DA with RollCall control and monitoring. 1 SDI/DVB-ASI input, 7 SDI/DVB-ASI outputs.

IQSDA1101-1A
Reclocking SDI DA with RollCall control and monitoring. 2 SDI/DVB-ASI inputs, 3 SDI/DVB-ASI outputs per input.



IQSDA1006-2A
Reclocking SDI DA with RollCall control and monitoring. 1 SDI input, 15 SDI outputs (outputs 1-7 DVB-ASI compatible).



IQSDA1005-2A
Reclocking SDI DA with RollCall control and monitoring. 1 SDI input, 10 SDI outputs, relay bypass for input to output 4.

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

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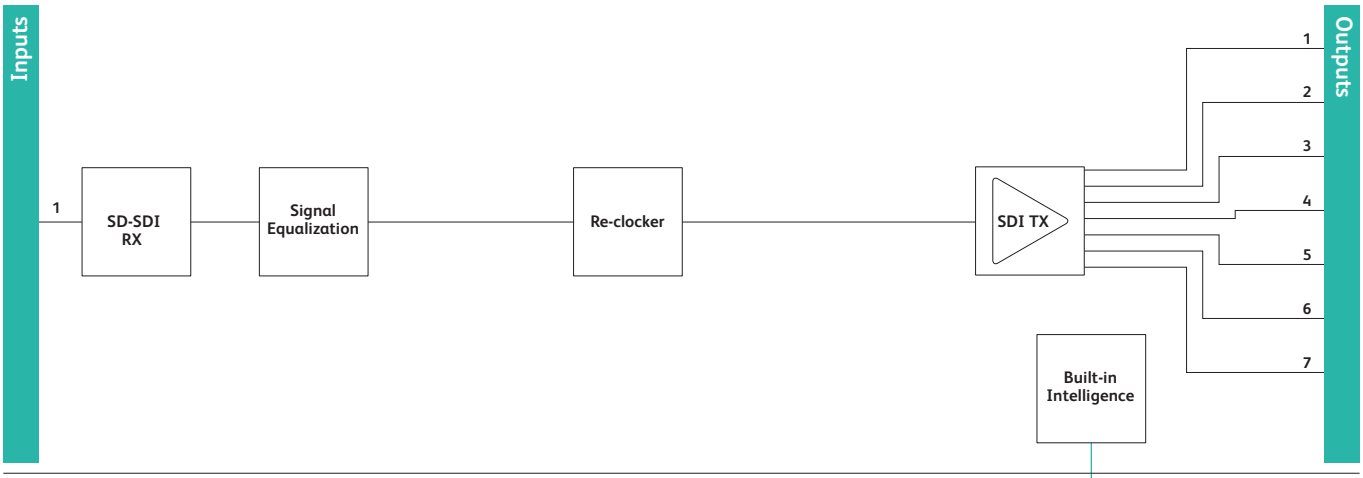
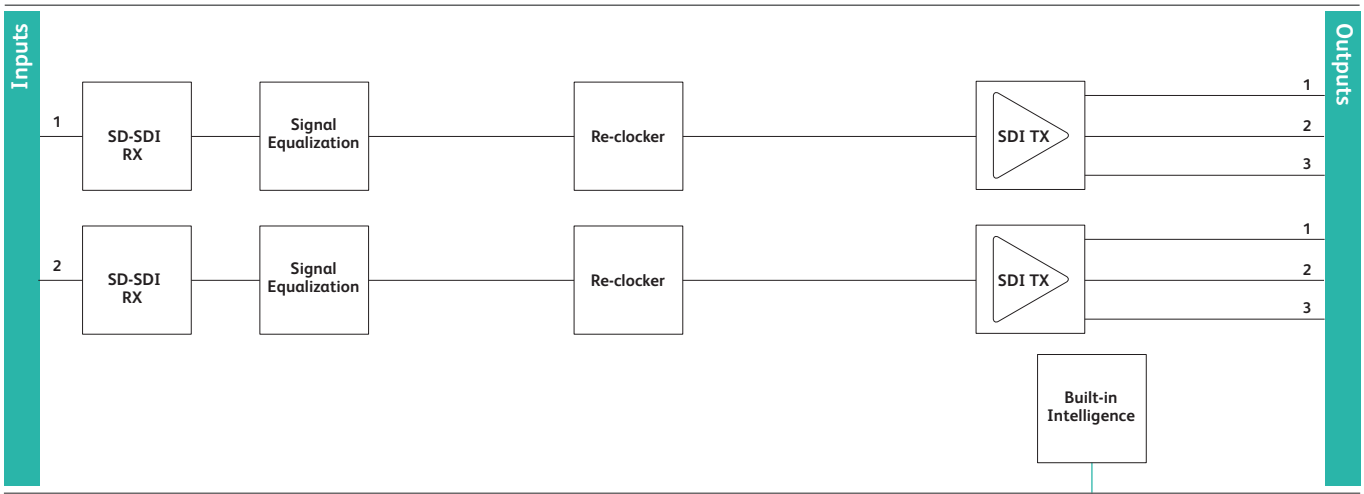
Reclocking SD-SDI Distribution Amplifier



Block Diagram for IQSDA1001–1A



Block Diagram for IQSDA1101–1A

IQSDA10/11

Reclocking SD-SDI Distribution Amplifier

Technical Specification

Inputs and Outputs

Signal Inputs

Standards	SMPTE 259M-C-1997, DVB-ASI
Connector / format	BNC/75ohm panel jack on standard SAM connector panel

Signal Outputs

Serial digital	IQSDA1001-1A: 7 SDI/DVB-ASI, IQSDA1006-2A: 15 SDI (1-7 DVB-ASI compatible), IQSDA1005-2A: 11 SDI (1-5 DVB-ASI compatible), relay bypass on output 4, IQSDA1000-1: 5 SDI/DVB-ASI, IQSDA1002-2: 11 SDI (1-5 DVB-ASI compatible), IQSDA1101-1A: 3 SDI/DVB-ASI per input
Standards	SMPTE 259M-C-1997, DVB-ASI
Connector / format	BNC/75ohm panel jack on standard SAM connector panel

Note: Do not cascade more than 5 modules when using relay bypass rear panel version.

Card Edge and RollCall Controls

Functions Available via RollCall Only

Input status	Present, Loss
Logging	Input status
RollTrack controls	On/Off, Index, Source, Address, Command, Status, Sending
RollTrack outputs (1-16)	Unused Input OK Input Lost

Indicators

Status	OK (Green), Warning (Yellow), Error (Red)

Specifications

Input return loss	Better than 15 dB to 270 MHz
Maximum input cable length	220 m (up to 150m combined input and output cable length, relay bypass version)
Output return loss	Better than 15 dB to 270 MHz
Insertion delay	20 ns nominal
SDI output level	800 mV nominal

Power Consumption

Module power consumption	IQSDA10 - 3.5 W (A Frames) 3 PR (B Frames) IQSDA10 relay bypass - 4.25 W (PR) IQSDA11 - 4 W (A Frames) IQSDA11 -4 PR (B Frames)