IQDRT is a range of serial digital video routers capable of routing up to 8 x 8 SDI signals. The unit takes in Serial 4:2:2, 4fsc or ASI video inputs, and routes each input to any number of the outputs.

IQDRT

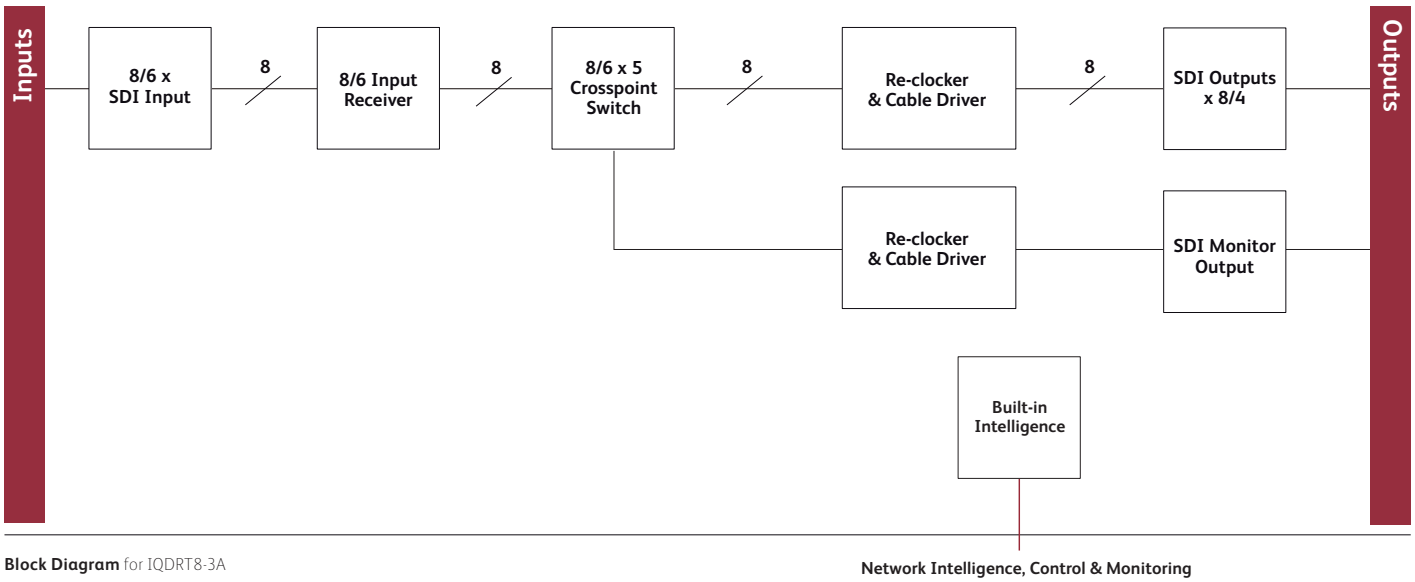
SDI Router (8 x 8, 6 x 4)

Does this module suit your application?

- 8 x 8 / 6 x 4 router for 4:2:2 / 4fsc / ASI serial digital video signals
- Up to 8 independent 143, 177 or 270 Mbit/s SDI video inputs
- Each input can be routed to any number of the outputs
- Loss of input indication
- Automatic standards selection
- All input and output channels can be renamed
- The video outputs are re-clocked and fully restored
- An Analog Reference input is provided for correct timing of video switching
- Remote unit control through RollCall
- Eight memory locations for storage and recall of selectable parameters

Why should you choose this module?

- A Digital Video router that enables source selection for all applications
- Can be used with 4fsc, 4:2:2 or ASI serial digital video
- Easy integration with the new RollCall operational control panels or with third party control panels
- Re-clocking outputs ensure there are no jitter problems downstream



Block Diagram for IQDRT8-3A

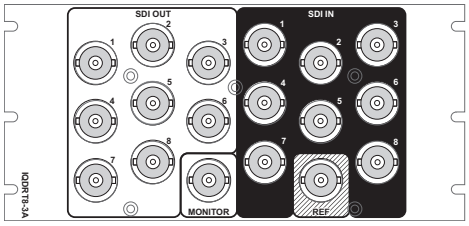
Order codes for IQH3A/1A enclosures

IQDRT8-3A
SDI Router. 8 inputs, 8 outputs.

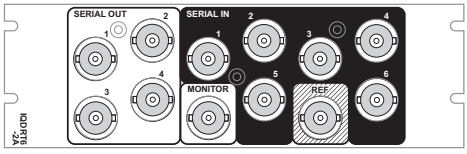
IQDRT6-2A
SDI Router. 6 inputs, 4 outputs.

For more details on enclosure types please refer to datasheet IQH3A.

snellgroup.com



IQDRT8-3A



IQDRT6-2A

Technical Specification

Inputs and Outputs

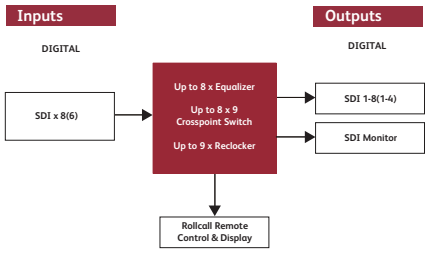
Signal Inputs

Serial input IQDRT8	8 SDI
Serial input IQDRT6	6 SDI
Standards	SMPTE 259M-ABC-1997, DVB_ASI
Analog video reference	Black burst 625/525 line terminated by 75 ohms

Signal Outputs

Serial output IQDRT8	8 SDI
Serial output IQDRT6	4 SDI
Standards	SMPTE 259M-ABC-1997, DVB_ASI
Monitor output (SDI)	1 x 270 Mb/s
Standards	SMPTE 259M-C-1997

IQDRT 8x8, 6x4 SDI Router



Card Edge and RollCall Controls

Card Edge Controls (also available via RollCall)

Router configuration	Independently configure the 8 outputs to any of the 8 inputs
Take button	Initiates Routing

Indicators

SDI input loss	Illuminates when the input SDI is lost
Take LED	FLASHES when routing assignment has changed and requires initiating via the take button
Power OK	+5 V, -5 V and top card +5 V

Functions Available via RollCall Only

Router configuration	Displays current router configuration
SDI input status	Displays SDI Input Status
Video reference status	Displays Reference standard and Status
Logging	Input Loss, EDH Error and Reference Status
Channel renaming	Labeling of all sources and destinations
8 memory stores	Storage and Recall of Selected Parameters
Switching point	Frame or Field switching

Specifications

Note that these modules perform re-clocking

Input return loss	Better than 15 dB to 270 MHz
Maximum input cable length	Better than 150 m (D1 270 MHz) Typically 200 m
Output return loss	Better than 15 dB to 270 MHz

Power Consumption

Module power consumption	IQDRT8 17.1 W max IQDRT6 12.1 W max