

The IQDCO is a passive changeover switch with SDI video presence detection.

IQDCO

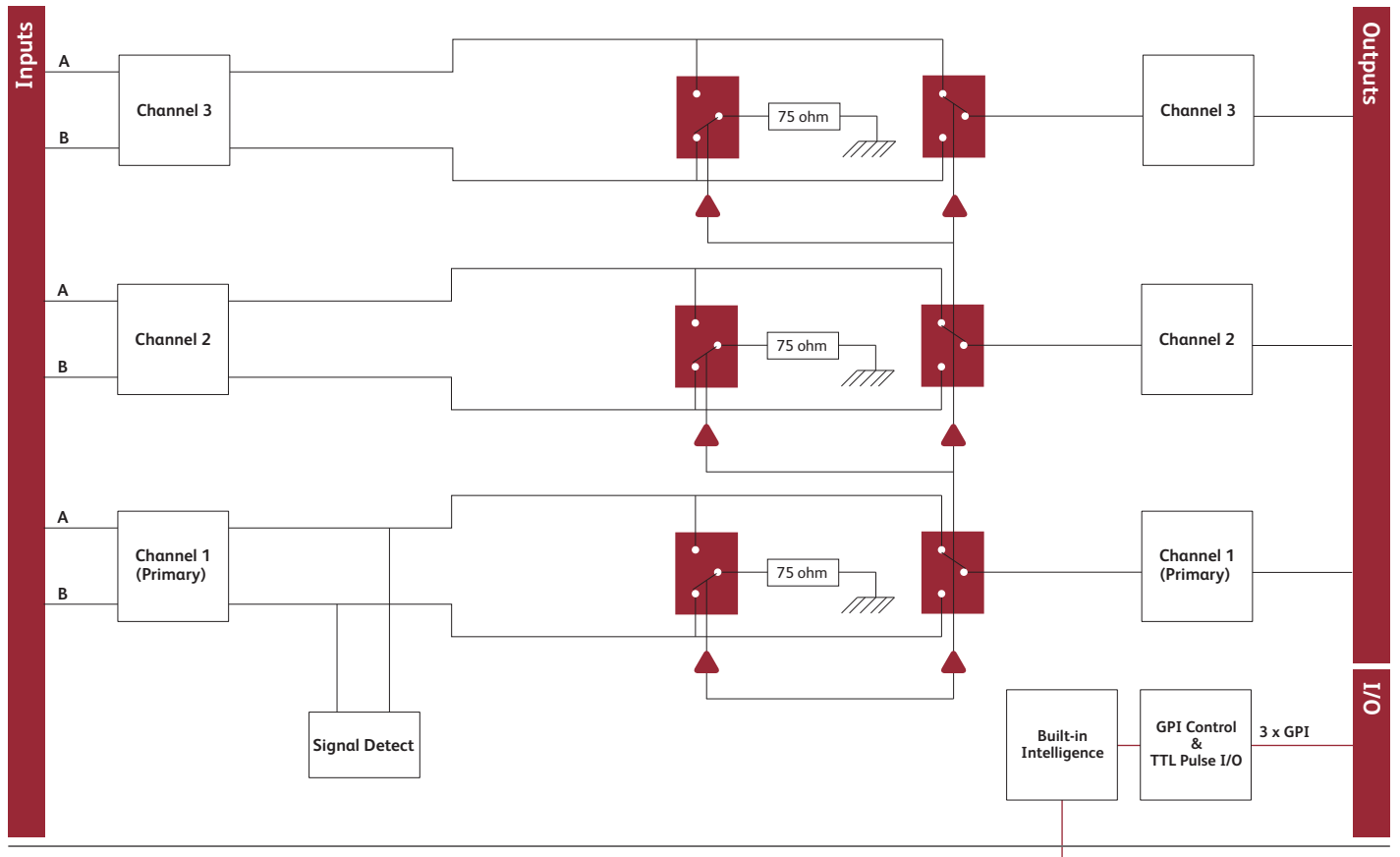
SDI Changeover Switch

Does this module suit your application?

- Passive SDI changeover switch
- Detection of carrier, SDI lock, line standard, EDH and embedded audio /data presence
- Automatic switch over on programmable condition(s)
- Continuity (A input) maintained with power loss or module removal
- Three programmable GPI/O's for control or tally
- Programmable switch over time delay
- RollCall remote and card edge control
- RollCall fault logging
- Can be linked to trigger other changeover modules via RollTrack

Why should you choose this module?

- Ideal for conditions where switch over needs to be fully programmable. For example, carrier loss, the absence of embedded audio or any logical combination of conditions may trigger switchover
- Continuity (A input) maintained with power loss or module removal
- Three programmable GPI/O's for control or tally
- Programmable switch over time delay



Block Diagram for IQDCO-2A

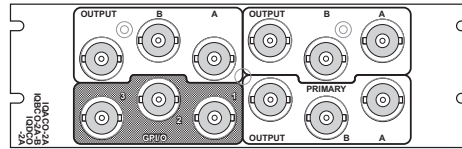
Network Intelligence, Control & Monitoring

Order codes for IQH3A/1A enclosures

IQDCO-2A

SDI Video changeover switch.
1 primary, 2 secondary switches.

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



IQDCO-2A

Technical Specification

Inputs and Outputs

Signal Inputs
Primary switch 2 x SDI via BNC connectors
Standards SMPTE 259M-C-1997
Secondary switch 2 per channel (2 channels) via BNC

Signal Outputs
Primary switch 1 x SDI via BNC connector
Standards SMPTE 259M-C-1997
Secondary switch 1 per channel (2 channels) via BNC
GPI I/O 3 x closing contact via BNC

Functions Available via RollCall Only

Switch rules Any logical combination of warnings and GPI triggers
GPI/O program TALLY any input state or warning or set as trigger
Switch delay 0 to 10 s from trigger condition(s)
Reporting and logging Input Loss; Input Line Standard; EDH error; Audio and data presence

Specifications

Signal Inputs
Primary SDI (x 2)
Input return loss Better than 15 dB to 270 MHz (Output terminated)
Maximum cable length >100 m PSF1/2 or equivalent
Cable length is defined as input cable length + output cable length.

Secondary (2 Channels)
Input return loss Better than -38 dB @ 5 MHz
Note that the secondary switches are not guaranteed to work with 270 Mbit SDI signals, but may do so in some installations

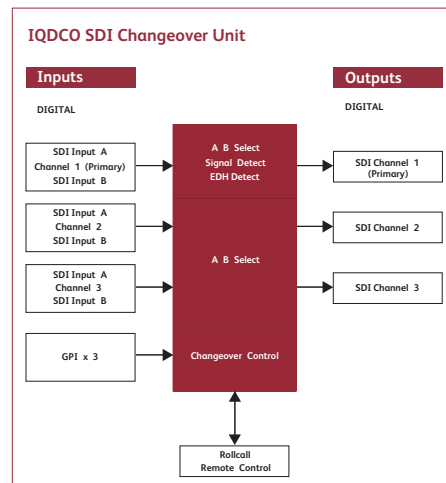
Signal Outputs (Passive)

Primary
Output return loss Better than 15 dB to 270 MHz (Inputs A and B terminated)

Secondary (2 Channels)
Output return loss Better than -38 dB @ 5 MHz
GPI I/O (x 3) characteristics Closing Contact Type

Output Sink Current 100 mA
Input Source Current 1 mA typical
Input Threshold Voltage 1 V typical

Power Consumption
Module power consumption 3.9 W max



Card Edge and RollCall Controls
Card Edge Controls (also available via RollCall)

Switch mode Manual / Auto
Manual switch A / B
EDH Reset Resets error flags (both inputs)
Local Selects default mode (cancels any RollCall programmed conditions)

Indicators
Power OK
Input Loss A
Input Loss B
Audio presence A At least one channel of embedded audio detected
Audio presence B At least one channel of embedded audio detected
EDH A Present; Error-Minute: Error-Hour
EDH B Present; Error-Minute: Error-Hour

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