

IQDCO

SDI Changeover Switch

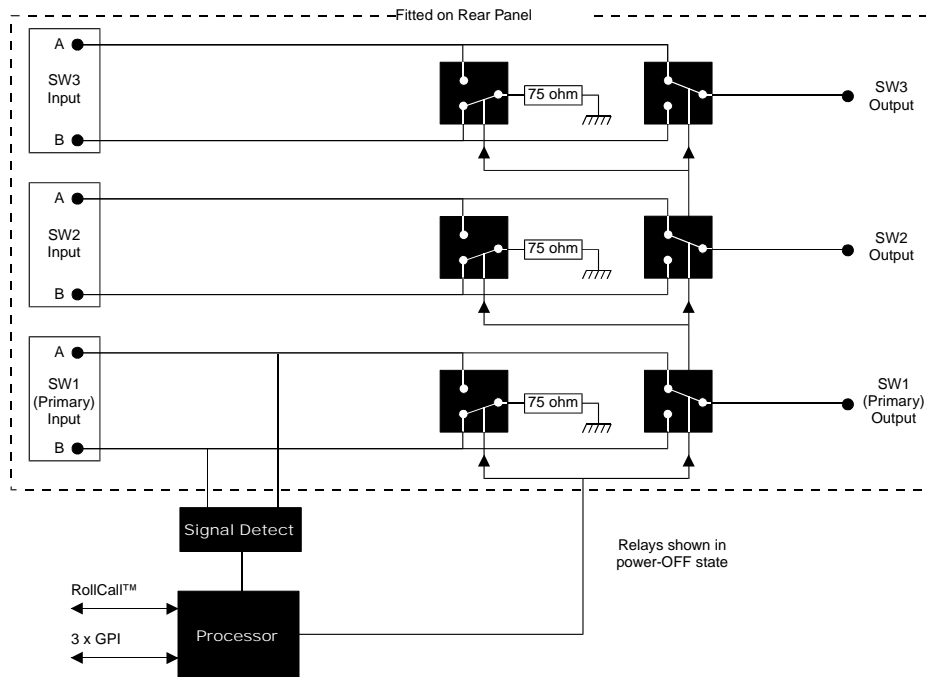
The IQDCO is a passive changeover switch with SDI video presence detection.

Does this module suit your application?

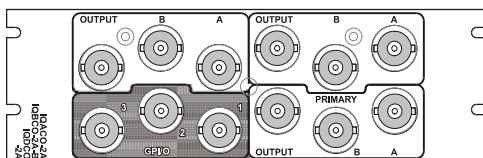
- Passive SDI changeover switch
- Detection of carrier, SDI lock, line standard, EDH and embedded audio /data presence
- Automatic switch over on programmable condition(s)
- Continuity (A input) maintained with power loss or module removal
- Three programmable GPI/O's for control or tally
- Programmable 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

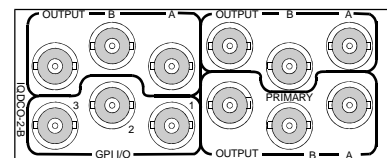


Order codes for IQH3A/1A enclosures



IQDCO-2A SDI Video changeover switch. 1 primary, 2 secondary switches

Order codes for other enclosures



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

For more details on enclosure types please refer to the Frames/Enclosures section

IQDCO

SDI Changeover Switch

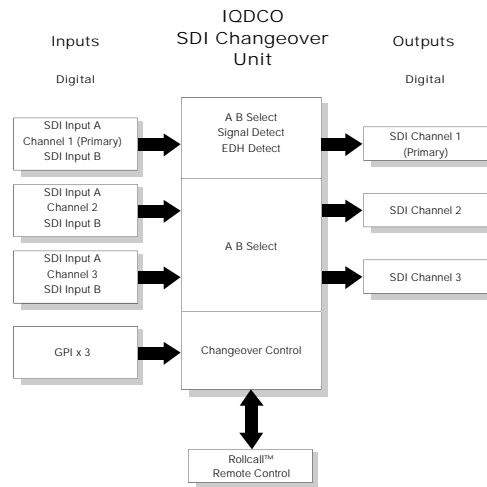
Inputs & Outputs

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 (Passive)

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



Card Edge & 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 O.K.
 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

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 & Logging Input Loss; Input Line Standard; EDH error; Audio & data presence

Specifications

Signal Inputs

Primary SDI (x2)
 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 (x3) 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