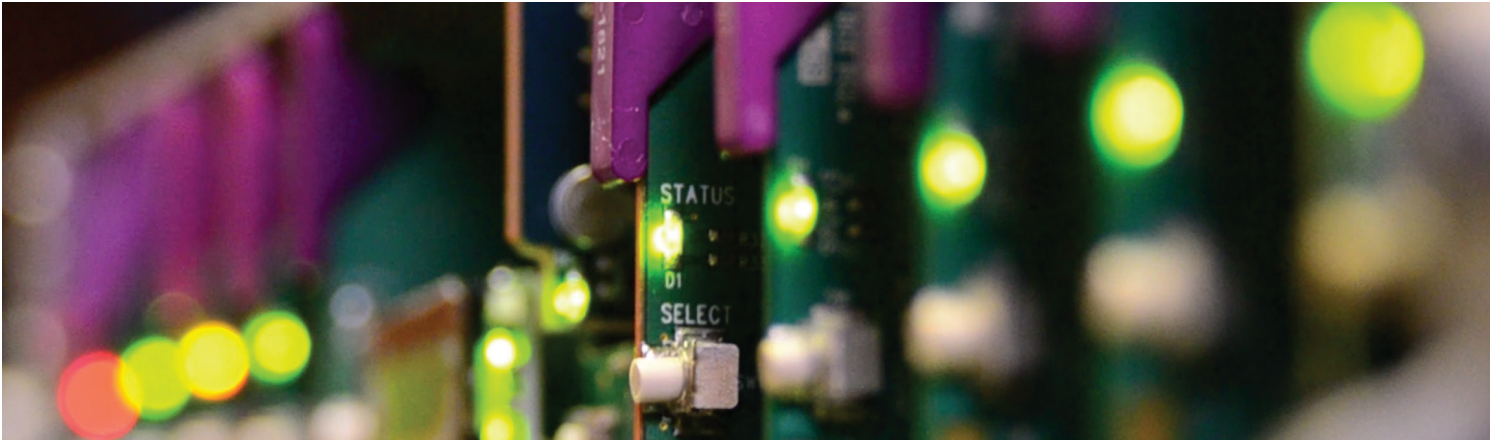


SCO-1421

Intelligent ASI Change-Over with Probing



Space-saving, modular platform for advanced signal processing.

The SCO-1421 from Grass Valley, a Belden Brand, is a 2x1 intelligent ASI change-over with built-in MPEG-TS probing. Change-overs are performed electronically by the SCO-1421's internal router. In the event of a power failure, the signal is protected by relays fitted on the rear module, maintaining the integrity of the selected signal at the output.

Input selection can be performed automatically or manually. In automatic mode, the card will perform smart input selection based on rules set on signal quality. In manual input selection mode, channel selection can be undertaken from the Densité controller or the iControl software, or simply by using a GPI. A GPI can be connected to an automation system or any simple GPI control panel. The GPI outputs give status of the selected source allowing tallies to be triggered.

The card comes with sync-loss free switching that will prevent sync loss or sync drop errors upon switching.

MPEG-TS signal probing monitors PID presence of up to 12 services per input simultaneously. In the event of a loss of data on any service PID, the SCO-1421 can be configured to automatically switch to the other input, provided it is error-free.

The optional advanced probing option enables full level 1 & 2 TR 101 290 probing and alarming. Together with the optional advanced probing, the card is not only the perfect ASI change-over but also a handy TS probe.

SCO-1424 Intelligent ASI Change-Over with Probing

KEY FEATURES

- 2 DVB-ASI source inputs and 2 DVB-ASI outputs (program and preview)
- Electronic switching with relay backup (on rear module) maintains selected input in the event of a power failure
- Automatic switch mode ruled by internal TS probes
- Manual change-over by local frame controller, iControl, iControl Solo
- Switching between TS packets avoids sync drop errors
- GPI I/O (IN 1, IN 2, AUTO, BYPASS)
- Manual change-over by GPI
- Alarm reporting to iControl monitoring and control system

Optional advanced probing

- PSIP Table PID presence alarming
- Teletext/subtitling PID presence alarming
- Probing for complete TR 101 290 L1 and L2 probing:
 - CAT_Error
 - CRC_Error
 - PAT_Error
 - PMT_Error
 - PCR_Accuracy
 - PCR_Error
 - PTS_Error
 - PID_Error

MPEG-TS signal analysis

- Probing of up to 12 services
- SI Table structure display
- PID presence alarming
- Total bit rate monitoring and alarming
- Service PID bit rates measurements
- Basic TR 101 290 probing and alarming:
 - ts_sync_loss
 - continuity_count_error
 - sync_byte_error
 - transport_error

SPECIFICATIONS

ASI Input(s)

Quantity/connector: Two inputs with BNC connectors

Standards: EN50083-9 (V2:3/98) DVB ASI

Data bit rate: 213 Mb/s

Cable length: 300m (984 ft.) Belden 1694A at 270 Mb/s

TS packet length: 188/204 bytes per packets

Return loss: >15 dB up to 270 Mb/s

ASI Output(s)

Quantity/connector: Program and Preview outputs with BNC connector

Standards: EN50083-9 (V2:3/98) DVB ASI

Return loss: >15 dB up to 270 Mb/s

Jitter: <0.2 UI (0.74 ns) pp

GPI

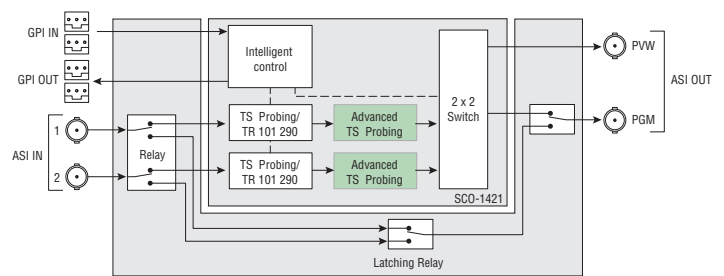
Connector: Weco

Opto Isolated:

GPI out (4): Used for tallies to give status of selected input

Electrical

Power: 8W



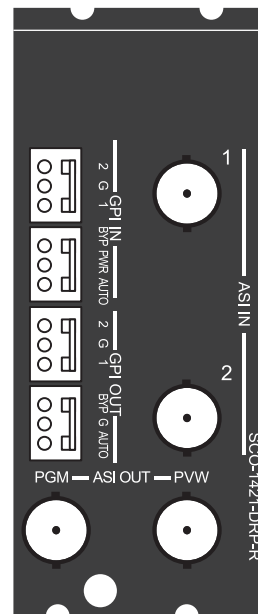
SCO-1421 Functional Block Diagram



ORDERING

Densité 2 frame	Densité 3 frame	Description
SCO-1421	SCO-1421-3RU	Intelligent ASI change-over with probing
SCO-1421-DRP-R	SCO-1421-DRP-R-3RU	Double rear connector panel with bypass relays

Options	Description
SCO-1421-OPT-ADVP	Advanced probing option for SCO-1421
Remote Control	iControl, iControl Solo



SCO-1421-DRP-R



GVB-1-0404B-EN-DS

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