S VD 5842

SDTV / HDTV

3G SERIES 5000

CardModules

3Gbit SDI 4>2 Input Switch

Description

The S VD 5842 is a simple 4 channel input switch or signal router which is compatible with SDI / DVB-ASI and SMPTE 310 signals up to 3Gbits/s. This module is ideally suited for demanding multi-format broadcast and professional video applications.

In reclocked mode the module will auto-detect the connected video standard. When set to non-reclocked mode the module will transparently pass data from 15Mbit/s to 3Gbit/s.

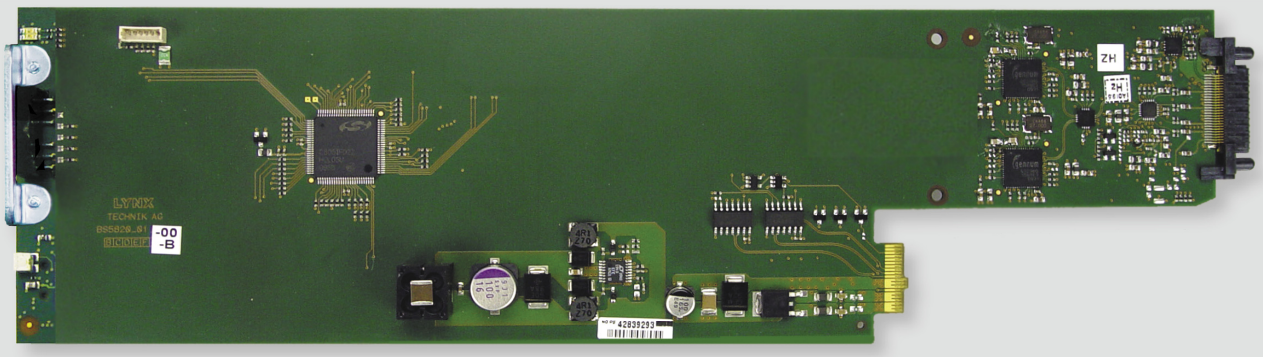
The switch can be configured to switch inputs manually from the optional RCP 5082 control panel and / or from the control system GUI. For SDI signals the video is switched within the switch line of the respective video standard, so seamless switching is possible with correctly timed input signals and a reference input.

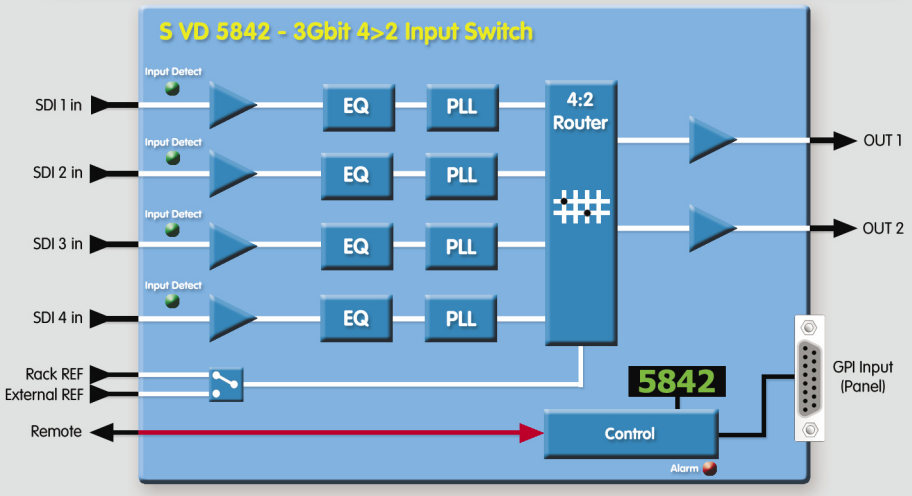
Local control capability is provided via the integrated 5 digit matrix display and control switch. Remote control, status monitoring and error reporting is possible when using the LYNX control system.

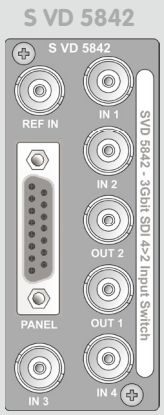
Features

- Supports SDI / DVB-ASI and SMPTE 310 inputs up to 3Gbit/s
- 4 x Inputs and 2 sets of switched outputs
- Inputs can be reclocked or non-reclocked
- Auto detect input video standard
- Manual switching from optional control panel and / or via control system GUI
- Transparently pass data between 15Mbit/s and 3Gbit/s in non-reclocked mode.
- Input presence detection with LED indicators
- Remote control, status monitoring and error reporting possible when used with LYNX control system
- SNMP error reporting when used with master controller option
- Hot Swappable

Optional: 1RU Control Panel







Backplane

LYNX Distribution

S VD 5842 DISTRIBUTION

S VD 5842

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Specifications

Video Inputs	
Signal Type	Serial Digital Video SMPTE 259M, 292M, 424M DVB-ASI and SMPTE 310
Video Standard	All formats (270Mbit/s through 2.97Gbit/s)
Input level	0.8 v peak to peak
Input Impedance	75 Ohms
No. Of inputs	4
Connector	BNC
Return loss	> 15dB (1.485Gbit) > 10dB (2.97Gbit)
Video Outputs	
Signal Type	Serial Digital Video SMPTE 259M, 292M, 424M DVB-ASI and SMPTE 310
Video standard	Follows input
Output level	0.8 v peak to peak
Output impedance	75 Ohm
No. Of Outputs	2
Connector	BNC
Return loss	> 15dB (1.485Gbit) > 10dB (2.97Gbit)
Jitter	< 0.20 UI (270Mbit) < 1,0 UI - Timing Jitter - (1.485Gbit - 2.97Gbit) < 0.20 UI - Alignment Jitter - (1.485Gbit - 2.97Gbit)
Reference Input**	
Signal Type	Analog Sync (Bi-level / Tri Level) auto detect.
No. of inputs	External or internal (common rack reference)
Connector / impedance	BNC / 75 Ohm (for external input)
Performance	
Cable equalization	Up to 250M using Belden 8281 (270Mbit) Up to 140m using Belden 1694A (1.485Gbit) Up to 80m using Belden 1694A (2.97Gbit)
Control	Local settings using on board matrix display and control switch. Remote control possible when used with LYNX controller
Status monitoring (LED)	Signal presence for each input plus general alarm
GPI (for control panel)	
Connector	15 pin female Sub D
GPI switch signals	Switch closure. Connect signal to ground to activate.
Operation modes	
Re-clocking / non reclocking	Clocked or non re-clocked operation (each channel, selectable)
Electrical Specifications	
Operating Voltage	12 VDC
Power Consumption	< 9W
Safety	IEC 60950/ EN 60950/ VDE 0805
Mechanical	
Size	283mm x 78mm
Weight	CardModule 120g, connector plate 60g
Ambient	
Temperature	5°C to 40°C Maintaining specifications
Humidity	90% Max non condensing

Specifications subject to change

Settings and Control

Local Settings	
Re-clocking	Clocked / non re-clocked
Reference Select	Internal (rack ref) or External
Settings Available from Control System	
Manual Switch.	Control system switch trigger.

On Board Indicators / LEDs
Input 1 Present / No Input
Input 2 Present / No Input
Input 3 Present / No Input
Input 4 Present / No input
General Alarm Indicator – 3 Color

****Note**
Clean switching (on the switch line of the input signal) is possible if the input signals are timed correctly and there is a connected reference signal of the same video standard as the sources.

Options

RCP 5082 - Control Panel

1RU control panel fo use with LYNX Input Switch Modules
Note. Parallel cable connection, 3m max
Note. Panel has 8 input switches, only 4 are used with the SVD 5842

Ordering Information

Model #	Part Number	Description	Includes
S VD 5842	5155025842	3Gbit SDI 4>2 input switch	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual
R CP 5082	5155003100	1 RU Control Panel	1RU Control Panel Assembly (cable not included)

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