P VD 5800



SERIES 5000

CardModules

SDI Frame Synchronizer

Description

The P VD 5800 is a low cost utility SDI frame synchronizer which can be used for basic SDI synchronization issues in broadcast. The module offers multiformat support for SDI formats up to 3Gbit/s (auto-detect)

The module utilizes robust "flywheel" synchronization that will accomodate a wide variety of low quality asynchronous SDI sources. All embedded audio is extracted and delayed automatically to match the video processing delay. Audio is free from disturbances even when dropping and adding frames.

The module also provides up to 62 frames of programmable output delay, adjustable in frames, lines and pixels.

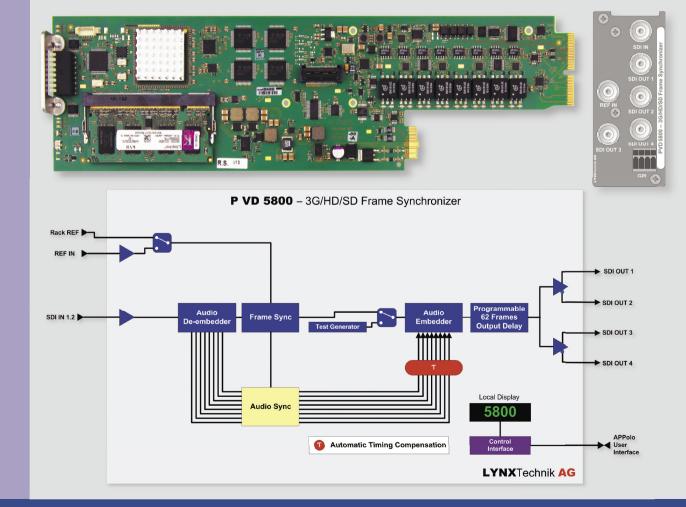
Microprocessor control and on-board Flash RAM enable configurations and settings to be stored within the module.

Remote control, status monitoring and error reporting is possible when using the LYNX APPolo Control System.

Features

- Supports SDI formats up to 3Gbit (auto-detect)
- Robust "flywheel" synchronization for a wide variety of problematic sources
- "Cross lock" compatible reference input
- All 16 channels of audio de-embedded from SDI input, delayed to match video processing dealy and re-embedded
- 4 x SDI outputs provided
- Integrated test pattern generator

- Auto-tracking audio delay with no "pops" or "clicks" in audio even when dropping and adding frames
- Up to 62 frames of programmable delay
- Remote control, status monitoring and error reporting possible with LYNX APPolo control system
- Full SNMP support when used with APPolo control system
- Hot swappable



3G SERIES 5000

SDI Frame Synchronizer

CardModules

Specifications

Video Input				
Signal type Serial digital video SMPTE, 292M, 424M, 259M with automa format and standard detection				
Supported formats	SDI formats up to 3Gbit/s* (see table)			
No. of inputs	1			
Input impedance	75 Ohm			
Connector	BNC			
Return loss	> 15dB (270Mbit) > 10dB (2.97Gbit)			
Video Outputs				
No. of outputs	4			
Signal type	Serial digital video SMPTE, 292M, 424M, 259M			
Output format	Follows input format			
Connector	BNC			
Impedance	75 Ohm			
Timing jitter	< 0.2UI (270Mbit) < 1.0UI (1.48Gbit) < 2.0UI (2.97GBit)			
Alignment jitter	< 0.2UI (270Mbit) < 0.2UI (1.48Gbit) < 0.3UI (2.97GBit)			
Return loss	> 15dB (270Mbit), >10dB (2.97Gbit)			
Reference Input				
Signal type	Analog bi-level (SDTV) or tri-level (HDTV) Auto-detect and cross lock compatible			
No of inputs	1 external or 1 internal (rack frame reference)			
Connection	BNC			
Impedance	75 Ohm			
Audio Processing	1			
De-embedder	All 16 audio channels are de-embedded from SDI input			
Audio delay	Auto track video processing delay			
Embedder	All 16 audio channels re-embedded into output (1 to 1)			
Video Delay				
Fixed delay	Frame sync mode = 1 Frame Line sync mode = 0.5 Frame			
Adjustable delay	Up to 62 frames of delay manually adjustable in frame / line / pixel increments			
Performance				
Cable equalization	Up to 250m (820ft) using Belden 8281 (270Mbit) Up to 140m (459ft) using Belden 1694A (1.48Gbit) Up to 80m (262ft) using Belden 1694A (2.97Gbit)			
Control	Basic local configuration using local display and menu system Full remote control / status monitoring possible when using the LYNX APPolo control system			
Status monitoring	Module edge LED indicators			
Electrical Specific	ations			
Operating voltage	12 VDC			
Power consumption	< 10W			
Safety	IEC 60950/ EN 60950/VDE 0805			
Mechanical				
Size	283mm x 78mm			
leight CardModule 120g, (4.2oz) connector plate 50g (1.8oz)				
Ambient	3, to a to a serie process (100-2)			
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Temperature	5°C to 40°C (41°F - 104°F) maintaining specifications			
Humidity	90% maximum, non-condensing			

specifications subject to chang

Settings and Control

Control				
Local controls	Local alphanumeric display with integrated menu system for setting basic module functions.			
Remote control	Full remote control and status monitoring supported with the APPolo control system			
External GPI inputs	GPI inputs (Function configurable with APPolo)			
Store user settings	Store up to 7 sets of user settings in module flash ram, switch between any two sets with external GPI input			
On Board Indicators / LEDs				
General status / alarm LED - (visible with rack door closed)				
SDI status LED				
Ref status LED				
Power status LED				

* Supported \	* Supported Video Standards	
Bits / color	10 Bit / 4:2:2 (Y,Cr,Cb)	
Formats : SDTV	525 / 59.94Hz, 625 /50Hz	
Formats : 1.5 Gbit	720p / 60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98 Hz 1080i / 60 / 59.94 / 50 Hz 1080p / 30 / 29.97 / 25 / 24 / 23.98 Hz 1080psF / 25 / 24 / 23.98 Hz	
Formats : 3.0 Gbit	1080p / 60 / 59.94 / 50 Hz (Level A)	

Ordering Information

Model #	Description	Includes
P VD 5800	3G/HD/SD - SDI Frame Synchronizer	CardModule, Rear Termination Panel and Reference Manual (on CD)