P VD 5802



SERIES 5000

CardModules

SDI Frame Synchronizer

Description

The P VD 5802 is a low cost utility SDI frame synchronizer which can be used for basic SDI synchronization issues in broadcast. The module offers multi-format support for SDI formats up to 3Gbit/s (auto-detect)

The module utilizes robust "flywheel" synchronization which can accommodate a wide variety of poor 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

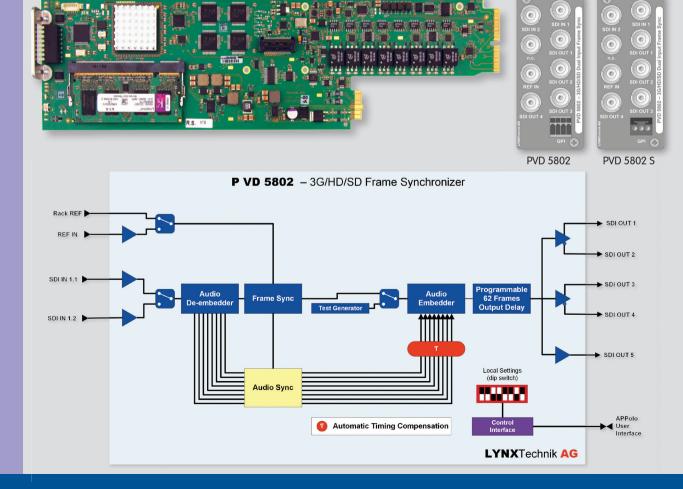
output delay, adjustable in frames, lines and pixels. Microprocessor control and on-board Flash RAM enable configurations and settings to be stored within the module.

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)
- Two SDI inputs (switchable)
- 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 delay and re-embedded
- 5 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
- 2 external GPI inputs, with choice of connector
- 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

APPolo control system Status monitoring Module edge LED indicators Electrical Specifications Operating voltage 12 VDC Power consumption < 10W	•	
Signat Nye format and standard detection	Video Input	
No. of inputs 2 (switchable) Input impedance 75 Ohm Connector BNC > 15dB (270Mbit) > 10dB (2.97Gbit) Video Outputs 5 Signal type Serial digital video SMPTE, 292M, 424M, 259M Output format Follows input format Connector BNC Impedance 75 Ohm Imining litter -0.2U (270Mbit) Alignment jitter -0.2U (270Mbit) -0.2U (270Mbit) -0.2U (12.976Bit) -0.2U (12.976Bit)	Signal type	
Input impedance Connector BNC Return loss > 15dB (270Mbit)	Supported formats	SDI formats up to 3Gbit/s* (see table)
Connector BNC Return loss > 15dB (270Mbit) > 10dB (2.970bit) Video Outputs No. of outputs Signal type Serial digital video SMPTE, 292M, 424M, 259M Output format Connector BNC Impedance 75 Ohm <	No. of inputs	2 (switchable)
Signal type	Input impedance	75 Ohm
Video Outputs No. of outputs Signal type Serial digital video SMPTE, 292M, 424M, 259M Output format Connector BNC Impedance 75 Ohm Coll (2.97GBit) Alignment jitter Co. 2.0 U (2.97GBit) Co. 2.0 U (2.97GBit) Co. 3.0 U (2.97GBit) Coll (2.97GBi	Connector	BNC
No. of outputs 5 Signal type Serial digital video SMPTE, 292M, 424M, 259M Output format Follows input format Connector BNC Impedance 75 Ohm - 0.2U (270Mbit) - 1.0U (1.486bit) - 2.0U (1.2976Bit) Alignment jitter - 0.3U (1.2976Bit) - 0.3U (1.2976Bit) Return loss > 15dB (270Mbit), >10dB (2.976bit) Reference Input Signal type Analog bi-level (SDTV) or tri-level (HDTV) Auto-deflect and cross lock compatible No of inputs 1 external or 1 internal (rack frame reference) Connection BNC Impedance 75 Ohm Audio Processing 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) GPI Inputs Number of inputs 2 Connector PVD 5802 = Screw terminal on rear panel PVD 5802 = Removable 3 pin weco connector GPI Trigger External connection between GPI input and Ground (short circuit) Video Delay Fixed delay	Return loss	
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Impedance 75 Ohm Could (1.48Cbit) Could (1.48C	Output format	Follows input format
Control Cont	Connector	BNC
Timing jitter	Impedance	75 Ohm
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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 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) GPI Inputs Number of inputs 2 Connector PVD 5802 = Screw terminal on rear panel PVD 5802 S = Removable 3 pin weco connector GPI Trigger External connection between GPI input and Ground (short circuit) Video Delay Fixad 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 140m (459ft) using Belden 1694A (2.97Gbit) Basic local configuration using dip switch. Full remote control / status monitoring possible when using the LYNX APPolo control system Status monitoring Module edge LED indicators Electrical Specifications Operating voltage 12 VDC Power consumption < 10W	Alignment jitter	< 0.2UI (1.48Gbit)
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Control Full remote control / status monitoring possible when using the LYNX APPolo control system Status monitoring Module edge LED indicators Electrical Specifications Operating voltage 12 VDC Power consumption < 10W	Cable equalization	Up to 140m (459ft) using Belden 1694A (1.48Gbit)
Electrical Specifications Operating voltage 12 VDC Power consumption < 10W	Control	Full remote control / status monitoring possible when using the LYNX
Operating voltage 12 VDC Power consumption < 10W	Status monitoring	Module edge LED indicators
Operating voltage 12 VDC Power consumption < 10W	Electrical Specifications	
Power consumption < 10W	•	
·		
	Safety	

Mechanical		
Size	283mm x 78mm	
Weight CardModule 120g, (4.2oz) connector plate 50g (1.8oz)		
Ambient		
Temperature	5°C to 40°C (41°F - 104°F) maintaining specifications	
Humidity	90% maximum, non-condensing	

Settings and Control

Control		
Local controls	Dip switch 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 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)		

Specifications subject to change

Ordering Information

Model #	Description	Includes
P VD 5802	3G/HD/SD - SDI Frame Synchronizer (GPI- terminal strip)	CardModule, Rear Termination Panel and Reference Manual (on CD)
P VD 5802 S	3G/HD/SD - SDI Frame Synchronizer (GPI- Weco connector)	CardModule, Rear Termination Panel and Reference Manual (on CD)