

FSY-3260

Dual-Channel 3G/HD/SD-SDI Frame Synchronizer

2025 Datasheet



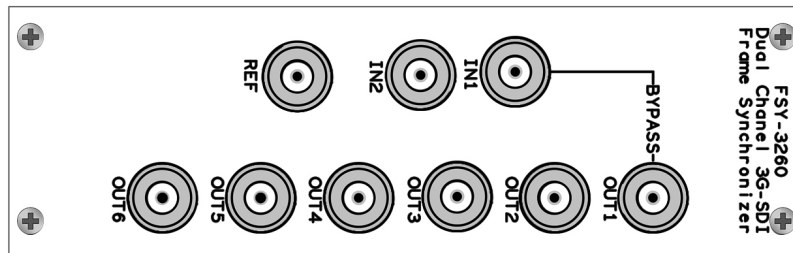
The **FSY-3260** is a dual-channel frame synchronizer supporting 3G, HD, and SD-SDI. It can apply the desired delay to video and embedded audio, making it the perfect solution for timing, lip-sync correction, phase adjustment, and blocking embedded data.

The **FSY-3260** features a relay-protected output to maintain reliability in the signal chain. It provides multiple identical outputs per path, eliminating the need for additional distribution amplifiers. Monitoring and configuration are easily managed through a user-friendly web interface.

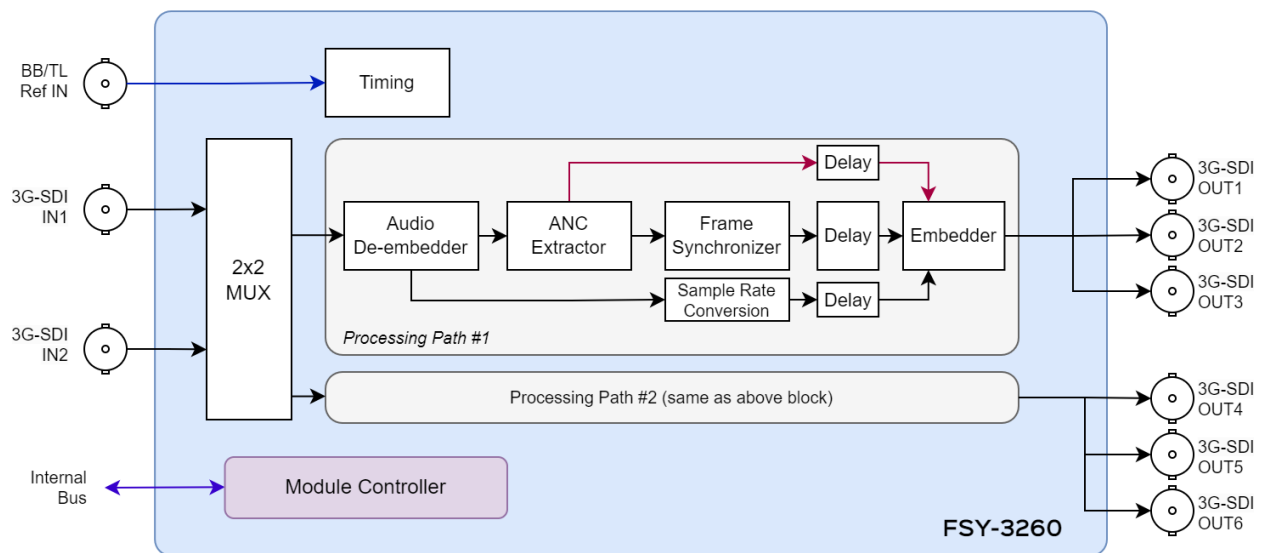
Key Features

- Automatic 3G/HD/SD-SDI detection
- Bypass relay protection on first output
- Independent two processing paths with input 2-to-2 mux
(Applying two different settings on a single input is achievable.)
- Three identical outputs per processing path
- Up to 125 frames of delay in HD/3G or 470 frames of delay in SD
(metadata delay is identical to video delay)
- Up to 30 seconds of delay on embedded audios
- Auto freeze or black on video loss
- Frame synchronizer and audio SRC with Tri-level / Bi-level reference input
- Horizontal/Vertical timing adjustment with respect to reference input
- Embedded audio and ancillary data support
- Web-based user interface
- Remote firmware upgrade

Back Panel



Block Diagram



Specifications

Digital Video Input		Digital Video Output	
Signal type	3G/HD/SD-SDI	Signal type	3G/HD/SD-SDI
Standards	SMPTE 292M, SMPTE 259M, SMPTE 424M	Standards	SMPTE 292M, SMPTE 259M, SMPTE 424M
Number of inputs	2	Number of outputs	6
Impedance	75Ω	Connector	BNC
Connector	BNC	Impedance	75Ω
Voltage level	800 mV ± 10%	Jitter	<0.2 UI (HD, SD) <0.3 UI (3G)
Cable length	Automatic Compensation 3G/HD/SD: 70/110/250 m (Belden 1694A)	Rise and fall time	0.4 to 1.5 ns (SD) <270 ps (HD) <135 ps (3G)
Reference Signal Input		Voltage level	800 mv ± 10%
Signal Type	HD: Tri-level, SD: Black Burst (PAL)	Overshoot	<10% Amplitude
Number of inputs	1	DC-Offset	0 V ± 0.5 V
Impedance	75Ω	Electrical	
Connector	BNC	Voltage	+12 VDC (from frame)
		Power	<15W
		Environmental	
		Temperature	5 °C to 40 °C
		Humidity	0% to 90%

System Requirements

Type	Product	Description
Frame	SRM-0655	3RU Frame with Controller

Ordering Information

Order Code	Description	Type
FSY-3260	Dual-Channel 3G/HD/SD-SDI Frame Synchronizer Main Board	Main Board
FSY-3260-3DRP-R	Back-panel for FSY-3260 with relay protection (compatible with SRM-0655)	Back Panel

With over two decades of extensive experience in the broadcast and media industry, Samim Group has emerged as a rapidly growing manufacturer and developer of professional-grade hardware and software solutions that cater to Broadcast Production Infrastructure, Intercom Systems, and Media Business Automation. We remain attuned to the latest technological advancements, ensuring we deliver high-standard solutions and products that can be marketed globally.

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