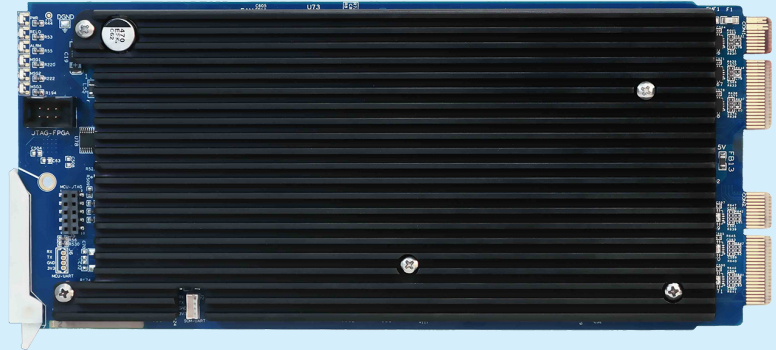


# CHO-3360

3G/HD/SD-SDI 3x2 Changeover

2024 Datasheet



The CHO-3360 is an automatic/manual changeover module compatible with SRM frames. It accepts three 3G/HD/SD-SDI inputs and provides two independent groups of outputs. The clean and quiet switching can be triggered manually through GPs and UI, or automatically based on the defined rules and priorities.

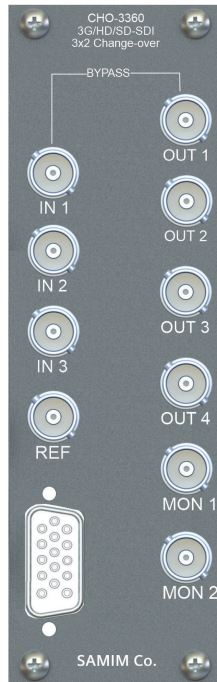
The CHO-3360 performs the frame synchronization and the switching operation with respect to the input reference signal or a free-run clock. It also supports embedded audio channels and ancillary metadata.

The module offers a relay-protected output for maintaining reliability in the signal chain. It provides multiple identical outputs per path to cut out the chain's need for additional distribution amplifiers. Monitoring and configuration are possible through a user-friendly web interface. GPOs show the chosen source of the first path.

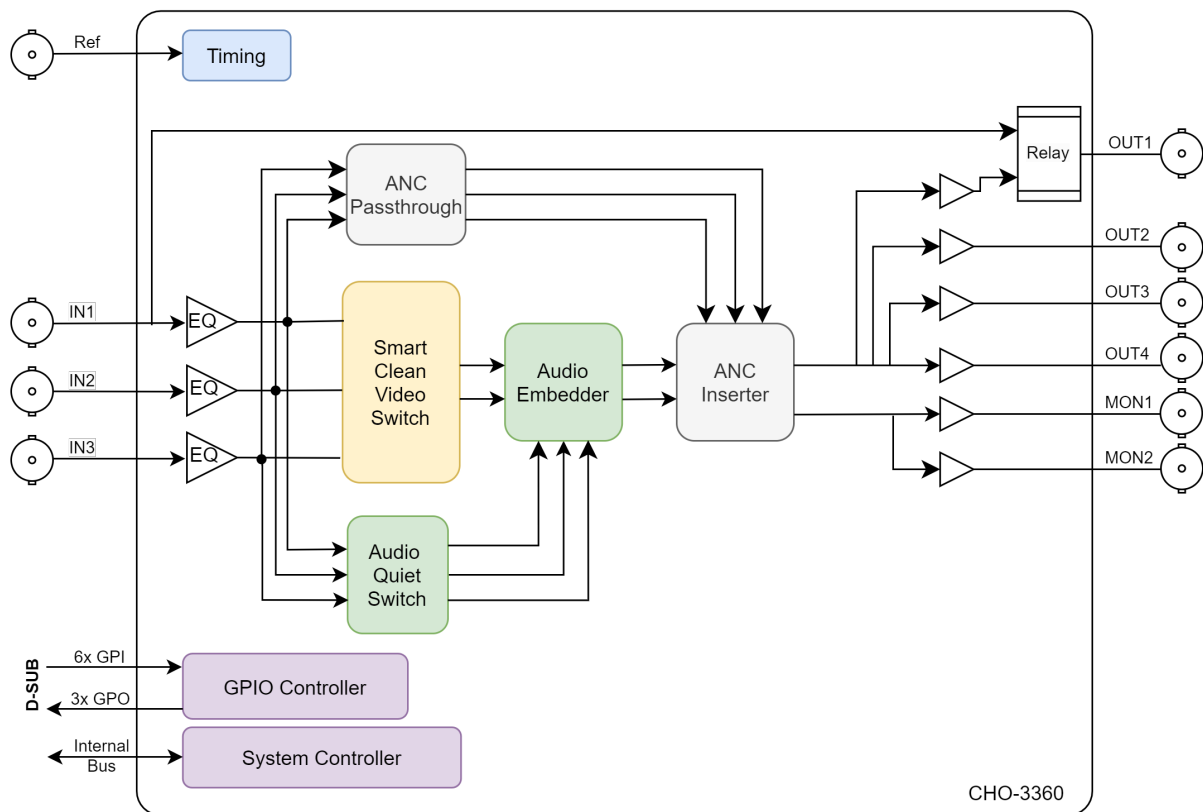
## Key Features

- Automatic 3G/HD/SD-SDI detection
- Bypass relay protection on first output
- Independent two output paths
- Four identical outputs for first path and Two identical outputs for second path
- Automatic or manual clean and quiet (v-fade) switching
- User-definable priority for the inputs in automatic mode
- GPIO control & monitoring in manual mode
- Frame synchronizer and audio SRC with Tri-level / Bi-level reference input
- Embedded audio and ancillary data support
- Web interface remote control
- 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	3	Number of outputs	4 + 2
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)
GPIO		Power	<15W
Connector	15 Position D-Sub (3-Row, Receptacle)	Environmental	
GPIO voltage	12V	Temperature	5 °C to 40 °C
GPI Type	Active level and trigger type are user selectable	Humidity	0% to 90%
Number of GPIs	6		
Number of GPOs	3		
Max. GPO current	1.2mA		
Other pins	6x GND		

## System Requirements

Type	Product	Description
Frame	SRM-0645	1RU Frame with Controller
	SRM-0655	3RU Frame with Controller

## Ordering Information

Order Code	Description	Type
CHO-3360	3G/HD/SD-SDI 3x2 Changeover Main Board	Main Board
CHO-3360-3DRP-R	Back-panel for CHO-3360 with relay protection (compatible with SRM-0655)	Back Panel
CHO-3360-1DRP-R	Back-panel for CHO-3360 with relay protection (compatible with SRM-0645)	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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