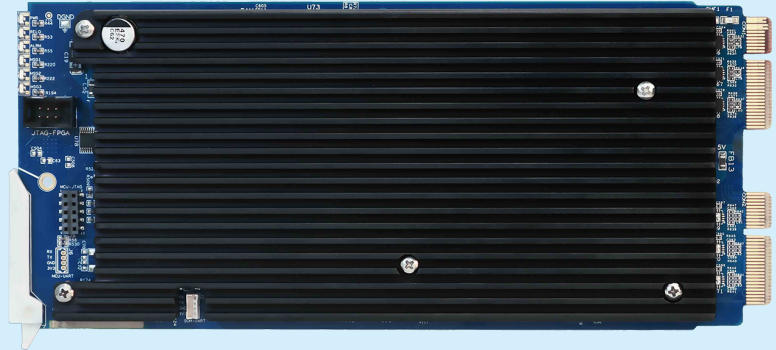


SKY-3540

3G/HD/SD-SDI Keyer and Logo Inserter

[2024 Datasheet](#)



The SKY-3540 is a configurable four layer keyer compatible with SRM frames. The module includes two layers of luminance / self key, a layer of static logo insertion, and a layer of animated logo insertion. It accepts one 3G/HD/SD-SDI input as the background and two pairs of key / fill inputs. Additionally, it comes equipped with internal storage for two high-quality logo inserters. The module features four identical outputs making it easy to integrate into the signal chain.

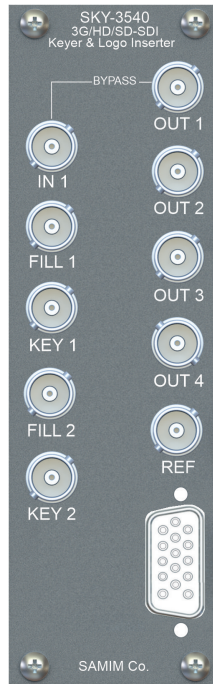
Users can easily manage the module and logo files through the intuitive web-based user interface. Besides UI, the GPI interface allows for the turning on and off of keyer layers, while GPOs reveal the state of each layer.

Other essential components of the module include a reference input, line synchronizer, relay protection, and priority selection, which further enhance its capabilities.

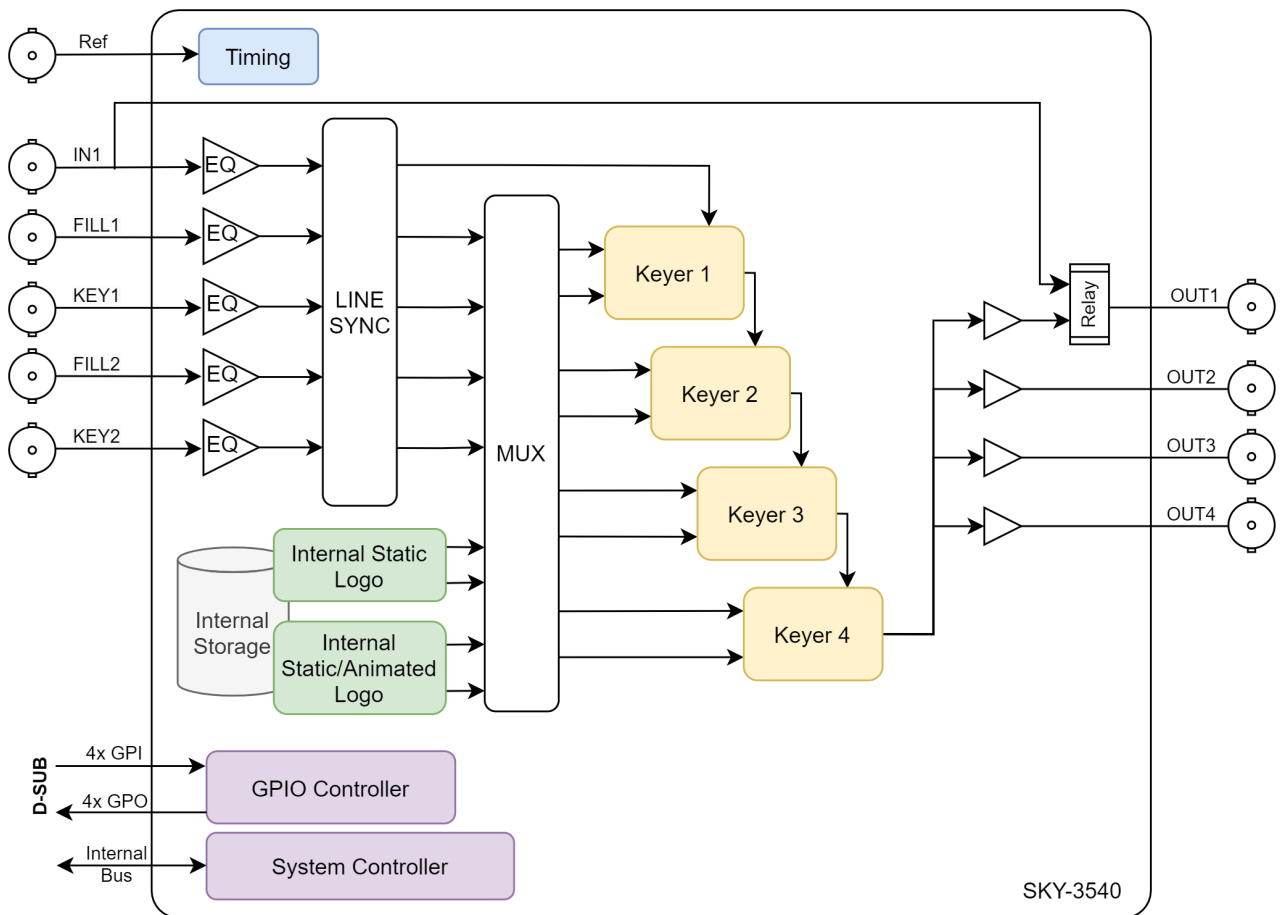
Key Features

- Four layer keyer and logo inserter with transparency support
- Animated logo up to 400 frames
- 2.5GB internal storage, lossless logo file compression for efficient storage
- Luminance or self key with configurable thresholds
- Embedded audio and ancillary data transparency
- Adjustable line synchronizer with Tri-level / Bi-level reference input
- Bypass relay protection on first output
- Four identical outputs
- User-definable priority for layers
- GPIO control & monitoring
- 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	5	Number of outputs	4
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) <135 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	<18W
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	4		
Number of GPOs	4		
Max. GPO current	1.2mA		
Other pins	5x GND, 2x RESERVED		

System Requirements

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

Ordering Information

Order Code	Description	Type
SKY-3540	3G/HD/SD-SDI Keyer and Logo Inserter Main Board	Main Board
SKY-3540-3DRP-R	Back-panel for SKY-3540 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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