

SCS 300

SYNC CONVERTER & STABILIZER

- Universal sync conversion
- Supports RGBHV, RGBS, RGsB, and RsGsBs
- ADSP™ - Advanced Digital Sync Processing
- Horizontal centering control
- Selectable sync-on-all output
- Dual simultaneous outputs on 15-pin HD and BNC connectors
- Compact, rack-mountable metal enclosure



The Extron SCS 300 combines sync conversion and sync stabilization in a single product. With Extron ADSP - Advanced Digital Sync Processing technology, it compensates for poor quality or weak signals resulting from PC graphics cards or long cable runs. The SCS 300 can be rack-mounted or installed near a display device, supporting a wide range of installation requirements.



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DESCRIPTION

The Extron **SCS 300** combines sync conversion and sync stabilization in a single, compact enclosure. It provides sync conversion between all common high resolution sync formats – RGBHV, RGBS, RGSB, and RsGsBs. Horizontal shift control enables precise centering of images on-screen.

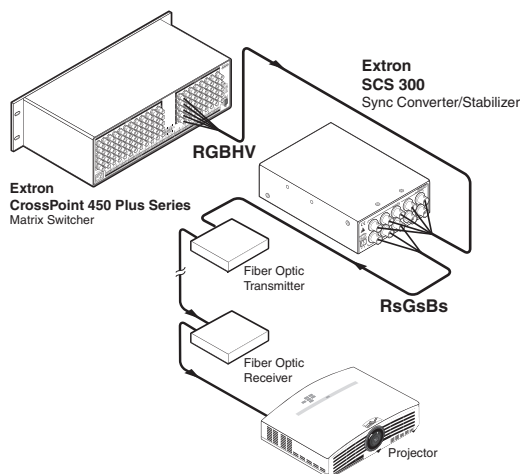
The SCS 300 also features Extron ADSP - Advanced Digital Sync Processing to compensate for poor quality or weak sync signals from PC graphics cards, or signal losses due to long cable runs. ADSP re-establishes the timing relationship between sync and video signals, and restores the sync voltage level and waveform to ensure robust, stable image reproduction.

For ease of installation, the SCS 300 features front and rear panel video outputs to support both rack-mount and at-the-display applications. The SCS 300 is housed in a 1U, quarter rack width metal enclosure.

FEATURES

- **Universal sync conversion** – The SCS 300 converts any RGB sync format to any other desired output format for compatibility with three, four, or five-wire RGB system designs.
- **ADSP - Advanced Digital Sync Processing technology** – An exclusive Extron technology that conditions sync signals to provide reliable operation with a variety of signal sources and display types. ADSP reshapes the sync signals, restores proper TTL voltage levels, and maintains the original video-to-sync timing relationships while allowing centering control.
- **Horizontal shift control** – Shifts the displayed image left or right on the display screen, so that images can be properly centered.
- **Sync-on-all output** – Provides the capability to output RGB with sync on all video signals – RsGsBs – from any RGB sync input format.
- **Dual RGB video outputs** – The SCS 300 simultaneously outputs RGB video on five-BNC and 15-pin HD connectors for ease of installation in rack-mount applications or at the display.
- **Rack-mountable 1U, quarter rack width metal enclosure**
- **External international power supply included, part # 70-055-01**

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO

Gain	Unity
Bandwidth	300 MHz (-3 dB)

VIDEO INPUT

Number/signal type.....	1 analog RGBHV, RGBS, RGSB, RsGsBs
Connectors	5 female BNC
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency.....	15 kHz to 130 kHz
Vertical frequency	30 Hz to 120 Hz
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable).....	4.0 V
Input coupling.....	AC

VIDEO OUTPUT

Number/signal type.....	2 analog RGBHV, RGBS, RGSB, RsGsBs
Connectors	5 BNC female, (1) 15-pin HD female
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.3 V to 1.5 Vp-p with no offset (follows input)
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	±5 mV with no input and at 0 offset

SYNC

Input type	RGBHV, RGBS, RGSB, RsGsBs
Output type.....	RGBHV, RGBS, RGSB, RsGsBs (switch-selectable)
Input level	Sync on R/G/B (RGSB, RsGsBs): 0.15 to 0.6 Vp-p TTL: 1.5 V to 5.5 Vp-p with ±0.2 VDC max. offset
Output level	Sync on R/G/B (RGSB, RsGsBs): 0.3 Vp-p TTL: 5.0 V p-p, unterminated
Input impedance	510 ohms or 10k ohms, selectable
Output impedance	75 ohms
Max. propagation delay.....	48 ns
Max. rise/fall time.....	3.5 ns
Polarity	
RGBHV	For RGVHV input, output is positive or negative (follows input) or is forced negative (switch-selectable)
RGSB, RGSB, RsGsBs	Negative

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated
Power input requirements.....	12 VDC, 0.4 A
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or 1U, 6" deep rack shelf, part #60-190-10 or 60-604-10. Projector mountable with kits #70-563-02/-03, #70-526-02/-03, or #70-077-04.
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 6.0" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 15.2 cm D (Depth excludes connectors.)
Product weight	0.8 lbs (0.4 kg)
Shipping weight	2 lbs (1 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part Number
SCS 300	Sync Converter & Stabilizer.....	60-811-01

Specifications are subject to change without notice.



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort, The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg., Singapore 368363
+800.7339.8766 +65.6383.4400
FAX +65.6383.4664

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan
+81.3.3511.7655 FAX +81.3.3511.7656