

# RGB 460xi Series Floor Box Interfaces

Architectural Interfaces for FSR and Steel City® Floor Boxes



RGB 460xi SC-AFM 2\*



RGB 460xi SC-AFM 4\*



RGB 464xi SC-AFM 6\*



RGB 468xi SC-AFM 6\*

\* Floor Box sold separately

## DESCRIPTION

The Extron **RGB 460xi Series Floor Box Interfaces** are architectural interfaces that can be mounted in Steel City AFM 2, AFM 4, AFM 6, AFM 8, or FSR floor boxes. A low profile design provides ample space for cables and connectors within the floor box. Each mounting plate is engineered to fit easily into any of the floor box configurations, making installations quick and clean.

With a 15-150 kHz horizontal frequency range, and 300 MHz (-3dB) of RGB video bandwidth, each interface features Extron's Advanced Digital Sync Processing (ADSP™) and a female 15-pin HD connector for connecting computers to display devices.

ADSP provides all-digital processing of sync signals, avoiding the tearing and other image distortions encountered when using poor sync processing methods with digital display devices such as DLP, LCD, D-ILA™/LCoS plasma, etc.

In addition, each interface is VGA–UXGA compatible, and includes the added convenience of a buffered local monitor output. Sync output is DIP switch-selectable for composite, separate horizontal and vertical sync, and sync on green. Audio interfacing is also included, allowing the input of unbalanced, computer-generated signals to be buffered and converted to balanced, line level signals. Output connectors are on five BNC pigtailed.

## The RGB 460xi Series Floor Box Interfaces include:

**RGB 460xi FSR:** RGB 460xi interface for FSR floor boxes.

**RGB 460xi SC-AFM 2:** RGB 460xi interface for Steel City AFM 2 floor boxes.

**RGB 460xi SC-AFM 4:** RGB 460xi interface for Steel City AFM 4 floor boxes.

**RGB 464xi SC-AFM 6:** RGB 464xi interface with a composite video pass-through connector (RCA to BNC), an S-Video pass-through connector (4-pin mini DIN female to female), an active stereo/mono, unbalanced to balanced stereo audio driver, and an RJ-45 connector for network, data, and phone transmissions and is designed to be mounted in a Steel City AFM 6 floor box.

**RGB 468xi SC-AFM 6:** RGB 468xi interface with three single space AAP openings for Steel City AFM 6 floor boxes.

**SC-AFM 8 Mounting Kit:** A mounting kit for Steel City AFM 8 floor boxes. It can accommodate any Extron four-gang, Extron three-gang, or Extron one- or two-gang faceplate. The SC-AFM 8 can support such products as Extron RGB 460xi, RGB 464xi, or RGB 468xi interfaces, as well as the Extron TP T 460 and assorted Extron AAPs.



SC-AFM 8 Mounting Kit

## FEATURES

- 300 MHz (-3dB) RGB video bandwidth
- Advanced Digital Sync Processing (ADSP)
- Horizontal shift control
- Composite or separate horizontal and vertical sync (DIP switch-selectable)
- Sync on green output (DIP switch-selectable)
- Serration pulse removal (DIP switch-selectable)
- Digital Display Sync Processing (DDSP™), DIP switch-selectable
- 12-24 VAC or VDC for power compatibility from a wide range of sources
- Compatible with Steel City® AFM 2, AFM 4, AFM 6, AFM 8, or FSR floor boxes

## MODEL

MODEL	PART #
RGB 460xi FSR	60-373-40
RGB 460xi SC-AFM 2	60-463-01
RGB 460xi SC-AFM 4	60-464-01
RGB 464xi SC-AFM 6	60-465-01
RGB 468xi SC-AFM 6	60-466-01
SC-AFM 8 Mounting Kit	70-203-01

Note: FSR and Steel City Floor Boxes sold separately

## OPTIONAL ACCESSORIES

VGAM 6' MHRA 15-Pin HD Cable .....	26-490-02	(page 401)
Mac Adapter 15-HDM Kit with Audio .....	70-156-01	(page 420)
13W3 Adapter 15-HDM Kit with Audio .....	70-157-03	(page 420)
PS 100 12 VDC 2.0 A multi unit power supply ..	60-357-01	(page 439)
Architectural Adapter Plates (AAPs) .....	assorted	(page 96)

CONTINUED ON NEXT PAGE...



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# RGB 460xi Series Floor Box Interfaces (continued)...

## SPECIFICATIONS

<b>VIDEO</b>	
Gain .....	Unity (0.7V), 15% with 3dB peaking (0.8V), 30% with 6dB peaking (0.9V)
Bandwidth .....	300 MHz (-3dB)

<b>VIDEO INPUT AND LOOP THROUGH</b>	
Number/signal type .....	1 analog RGBHV, RGBS, RGsB
Connectors .....	(1) 15-pin HD female buffered input connector and (1) 15-pin HD female local monitor loop through connector
Nominal level.....	0.7V p-p for RGB
Minimum/maximum levels .....	Analog: 0.3V to 1.45V p-p with no offset at unity gain
Impedance .....	75 ohms or Hi Z, switchable (set to 75 ohms if no local monitor is connected)
Horizontal frequency .....	15 kHz to 150 kHz (optimum: 15 kHz to 62 kHz)
Vertical frequency .....	30 Hz to 170 Hz
Return loss .....	<-30dB @ 5 MHz

<b>VIDEO OUTPUT</b>	
Number/signal type .....	1 analog RGBHV, RGBS, RGsB
Connectors .....	5 BNC female on 2" to 2.5" cables
Nominal level.....	0.7V p-p for RGB
Minimum/maximum levels .....	Analog: 0.7V to 0.9V p-p (switch-selectable) w/peaking and 0.7V p-p input
Impedance .....	75 ohms
Return loss .....	-30dB @ 5 MHz

<b>SYNC</b>	
Input type .....	Autodetect RGBHV, RGBS, RGsB (accepts RGsB but does not strip from video)
Output type	
RGBHV .....	at all times
RGBS .....	switch-selectable
RGsB .....	switch-selectable or pass-through
Input level .....	2.0V to 5.5V p-p with +0.2VDC offset max.
Output level .....	4.0V to 5.0V p-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. propagation delay .....	52 ns
Max. rise/fall time .....	2.5 ns
Polarity .....	Positive or negative

<b>AUDIO — ALL MODELS</b>	
Gain .....	Unbalanced output: 0dB; balanced output: +6dB
Response .....	20 Hz to 20 kHz, ±0.5dB
THD + Noise .....	0.03% @1 kHz, 0.3% @ 20 kHz at nominal level
S/N .....	>90dB at rated maximum output (14dBu), balanced
Stereo channel separation .....	>90dB @ 1 kHz to 20 kHz

<b>AUDIO INPUT — RGB 464XI</b>	
Number/signal type .....	2 stereo, unbalanced, 20 Hz to 20 kHz
Connectors	
Ch. 1 .....	3.5 mm stereo female jack (2 channel), unbalanced; tip (L), ring (R), sleeve (ground)
Ch. 2 .....	2 RCA female jacks
Impedance.....	>5 kohms unbalanced, DC coupled
Nominal level.....	-10dBV (316mV)
Maximum level .....	+8.5dBu (unbalanced) at 1%THD+N

<b>AUDIO INPUT — RGB 460XI, RGB 460XI FSR, RGB 468XI</b>	
Number/signal type .....	1 stereo, unbalanced, 20 Hz to 20 kHz
Connectors .....	3.5 mm stereo female jack (2 channel), unbalanced; tip (L), ring (R), sleeve (ground)
Impedance.....	>5 kohms unbalanced, DC coupled
Nominal level.....	-10dBV (316mV)
Maximum level .....	+8.5dBu (unbalanced) at 1%THD+N

<b>AUDIO OUTPUT — RGB 464XI</b>	
Number/signal type .....	2 buffered, stereo (2 channel), balanced/unbalanced
Connectors .....	3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	±0.1dB channel to channel
Maximum level (600 ohm) .....	+14dBm, balanced at stated %THD+N

<b>AUDIO OUTPUT — RGB 460XI, RGB 460XI FSR, RGB 468XI</b>	
Number/signal type .....	1 buffered, stereo (2 channel), balanced/unbalanced
Connectors .....	3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms, unbalanced, 100 ohms balanced
Gain error .....	±0.1dB channel to channel
Maximum level (600 ohm) .....	+14dBm, balanced at stated %THD+N

NOTE: 0dBu = 0.775 volts (RMS).

## GENERAL

Power .....	100VAC to 240VAC, 50/60 Hz, 5 watts, external, autoswitchable; to a 9 to 24VDC, 0.20 A power supply. Product requires 0.2 A (minimum). (A 12VDC, 1 A power supply is included.)
Rack mount .....	No
RGB 460xi/RGB 464xi/RGB468xi SC-AFM .....	Steel City AFM floorbox mountable
RGB 460xi FSR .....	FSR floorbox mountable
Enclosure type .....	Metal
Enclosure dimensions	
RGB 460xi FSR faceplate.....	4.5" H x 3.5" W x 0.1" D (11.4 cm H x 9.0 cm W x 0.3 cm D)
RGB 460xi SC-AFM2 faceplate .....	2.9" H x 3.5" W x 0.1" D (7.4 cm H x 8.9 cm W x 0.3 cm D)
RGB 460xi SC-AFM4 faceplate .....	2.9" H x 5.8" W x 0.1" D (7.4 cm H x 14.7 cm W x 0.3 cm D)
RGB 464xi SC-AFM6, RGB 468xi SC-AFM6 faceplate .....	2.9" H x 8.9" W x 0.1" D (7.4 cm H x 22.6 cm W x 0.3 cm D)
Interface enclosure for all models.....	2.7" H x 3.3" W x 1.0" D (6.9 cm H x 8.4 cm W x 2.8 cm D) (Depth excludes front panel connectors and controls.)
Enclosure dimensions	
SC-AFM8 adapter plate.....	4.4" H x 9.4" W x 0.1" D (11.2 cm H x 23.9 cm W x 0.3 cm D)
Product weight	
RGB 460xi SC-AFM2, RGB 460xi FSR .....	0.5 lbs (0.3 kg)
RGB 460xi SC-AFM4, RGB 464xi SC-AFM6, RGB 468xi SC-AFM6.....	0.8 lbs (0.4 kg)
SC-AFM8 .....	0.6 lbs (0.3 kg)
Shipping weight (all models) .....	3 lbs (1.4 kg)
Listings/Compliances .....	UL, CUL, CE, FCC Class A, VCCI, AS/NZS, ICES
Warranty .....	3 years parts and labor

## APPLICATION

