

RGB 470xi Series

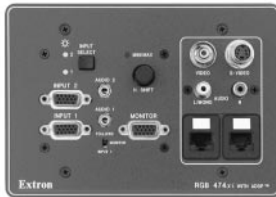
Dual Input, Architectural Interfaces for Two-, Three-, and Four-Gang Wall Boxes



RGB 472xi



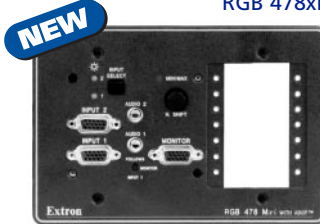
Back



RGB 474xi



RGB 478xi



RGB 478 Mxi

DESCRIPTION

The Extron **RGB 470xi Series** with Advanced Digital Sync Processing (ADSP™) are universal, analog computer-video interfaces with two female 15-pin HD inputs and a buffered local monitor output that can be fixed to input one or set to follow the input selected to the display. Input selection can be autoswitched, or controlled through the front panel or contact closure. The RGB 470xi Series provides two memories, one per input, for centering settings for image consistency during switching or in case of power loss. With a 15-130 kHz scanning range and 300 MHz (-3dB) of RGB video bandwidth, the RGB 470xi Series interfaces accept VGA-UXGA, Mac, Sun, and SGI signals while providing RGBHV, RGBS, or RGsB output on five BNC pigtailed. The RGB 470xi Series converts computer-generated, unbalanced audio to balanced line level stereo or mono audio for output on a 3.5 mm captive screw connector, and features sync processing through Extron's exclusive ADSP technology, ensuring compatibility with digital displays such as DLP, LCD, D-ILA™/LCoS, plasma, etc.

RGB 472xi: Dual input interface that can be mounted in a two-gang wall box

RGB 472xi EC: Interface compatible with European Cable Channel mounting hardware

RGB 474xi: In addition to the features above, the RGB 474xi includes 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 three-gang wall box.

RGB 478xi: Dual input interface with four single spaces for Architectural Adapter Plates (AAPs) for signal pass-through connectors. This model is designed to be mounted in a four-gang wall box.

RGB 478 Mxi: Three-gang RGB 470xi interface with four single spaces for Mini Architectural Adapter Plates (MAAPs).

As Extron Architectural Series Interfaces, the RGB 472xi's compact design fits snugly in a two-gang wall box, while the RGB 474xi and RGB 478xi fit into three- and four-gang wall boxes respectively. These designs combine shallow depth with wall mounting plates for easy installation.

FEATURES

- Two 15-pin HD input connectors
- One switch-selectable, buffered local monitor output locked to input one or follows output selected
- 300 MHz (-3dB) RGB video bandwidth
- Advanced Digital Sync Processing (ADSP)
- Two memories (one per input) for centering settings
- Active PC audio to balanced audio interfacing
- Horizontal shift control
- ID bit termination on pins 4 and 11
- Composite or separate horizontal and vertical sync (DIP switch-selectable)
- Autoswitching
- Contact closure switching control
- Sync on green output (DIP switch-selectable)
- Serration pulse removal (DIP switch-selectable)
- Digital Display Sync Processing (DDSP™), DIP switch-selectable
- External international power supply included (part# 70-055-01, page 439)

Features exclusive to RGB 474xi:

- Active PC audio to balanced audio interfacing on one 3.5mm captive screw connector and two female RCA connectors
- Pass-through composite video RCA and S-video 4-pin mini DIN connectors

Features exclusive to RGB 478xi:

- Four single spaces for Architectural Adapter Plates (AAPs) for signal pass-through connectors

MODEL	PART #
RGB 472xi (gray)	60-515-01
RGB 472xi (black)	60-515-02
RGB 472xi (white)	60-515-03
RGB 472xi EC (white)	60-515-10
RGB 474xi (gray)	60-519-01
RGB 474xi (black)	60-519-02
RGB 474xi (white)	60-519-03
RGB 478xi (gray)	60-521-01
RGB 478xi (black)	60-521-02
RGB 478xi (white)	60-521-03
RGB 478 Mxi (black)	60-592-02
RGB 478 Mxi (white)	60-592-03



RGB 470xi Series (continued)...

OPTIONAL ACCESSORIES

VGM 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)
P/S 100 12 VDC 2.0 A multi unit power supply..	60-357-01	(page 439)
Architectural Adapter Plates (AAPs)	assorted	(page 96)
Mini Architectural Adapter Plates (MAAPs)	assorted	(page 111)

SPECIFICATIONS

VIDEO

Routing	2 x 1 router
Gain	Unity (0.7V), 15% with 3dB peaking (0.8V), 30% with 6dB peaking (0.9V)
Bandwidth	300 MHz (-3dB)

VIDEO INPUT AND LOOP THROUGH

Number/signal type	2 analog RGBHV, RGsB, RGsB
Connectors	(2) 15-pin HD female buffered input and (1) 15-pin HD female local monitor loop through
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, buffered
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

VIDEO OUTPUT

Number/signal type	2 identical analog RGBHV, RGsB, RGsB
Connectors	5 BNC female on 2" to 2.5" cables (1) 15-pin HD female
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

SYNC

Input type	RGBHV, RGsB, RGsB (accepts RGsB, but does not strip sync from video)
Output type	RGBHV at all times RGsB switch-selectable RGsB switch-selectable
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 (follows input), or negative (DIP switch-selectable)

AUDIO

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 rated nominal level
S/N	< -90dB at rated maximum output (14dBu), balanced
Stereo channel separation	>90dB @ 1 kHz to 20 kHz

AUDIO INPUT

Number/signal type	2 PC level stereo, unbalanced
Connectors	(2) 3.5 mm stereo female jacks (2 channel), unbalanced; tip (L), ring (R), sleeve (ground)
Impedance.....	>5 kohms unbalanced, DC coupled
Nominal level.....	-10dBV (316mVrms)
Maximum level	+8.5dBu at 1% THD+N

AUDIO OUTPUT

Number/signal type	RGB 474xi: 2 buffered, stereo or mono, balanced Other models: 1 buffered, stereo or mono, balanced
Connectors	RGB 474xi: (2) 3.5 mm captive screw connectors, 5 pole Other models: (1) 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. Wall or furniture mountable
Enclosure type	Metal
Enclosure dimensions	
RGB 472xi faceplate	4.5" H x 4.6" W x 0.1" D (2 gang) (11.4 cm H x 11.7 cm W x 0.3 cm D)
RGB 474xi, RGB 478 Mxi faceplate	4.5" H x 6.4" W x 0.1" D (3 gang) (11.4 cm H x 16.3 cm W x 0.3 cm D)
RGB 478xi faceplate	4.5" H x 8.3" W x 0.1" D (4 gang) (11.4 cm H x 21.2 cm W x 0.3 cm D)
RGB 472xi EC faceplate	3.2" H x 4.4" W x 0.1" D (8.0 cm H x 11.2 cm W x 0.3 cm D)
Interface enclosure for all models.....	2.7" H x 3.3" W x 1.2" D (6.9 cm H x 8.4 cm W x 2.5 cm D) (Depth excludes front panel connectors and controls.)
Product weight	
RGB 472xi	0.5 lbs (0.2 kg)
RGB 474xi	0.6 lbs (0.3 kg)
RGB 478xi, RGB 478 Mxi	0.7 lbs (0.3 kg)
EC models.....	0.7 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

