

Specifications — RGB 460xi Series Architectural Interfaces

Video

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

Video input and loop through

Number/signal type.....	1 analog VGA-QXGA RGBHV, RGBS, RGsB
Connectors	1 female 15-pin HD buffered input connector 1 female 15-pin HD local monitor loop through connector
Nominal level	0.7 V _{p-p} for RGB
Minimum/maximum levels.....	Analog: 0.3 V to 1.45 V _{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.....	<-30 dB @ 5 MHz

Video output

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

Sync

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	2.0 V to 5.5 V _{p-p} with ± 0.2 VDC offset max.
Output level.....	4.0 V to 5.0 V _{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

Audio — all models

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

Audio input — RGB 464xi

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

Specifications — RGB 460xi Series Architectural Interfaces, cont'd

Audio input — RGB 460xi, RGB 460xi EC, RGB 460xi FSR, RGB 468Mxi, RGB 468xi, RGB 468xi AKM UK

Number/signal type.....	1 stereo, unbalanced, 20 Hz to 20 kHz
Connectors	3.5 mm female stereo jack (2 channel), unbalanced; tip (L), ring (R), sleeve (ground)
Impedance.....	>5k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mV)
Maximum level.....	+8.5 dBu (unbalanced) at 1% THD+N

Audio output— RGB 464xi

Number/signal type.....	2 buffered, stereo (2 channel), balanced/unbalanced
Connectors	(2) 3.5 mm captive screw connectors, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (600 ohm).....	+14 dBm, balanced at 1% THD+N

Audio output — RGB 460xi, RGB 460xi EC, RGB 460xi FSR, RGB 468Mxi, RGB 468xi, RGB 468xi AKM UK

Number/signal type	
RGB 460xi Dual	2 separate, buffered, stereo (2 channel), balanced/unbalanced
Other models	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	±0.1 dB channel to channel
Maximum level (600 ohm).....	+14 dBm, balanced at 1% THD+N

NOTE 0 dBu = 0.775 V, 0 dBV = 1 V, 0 dBV ≈ 2 dBu.

General

Power	Supplied by an included 12 VDC, 1 A external power supply
External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 9 to 12 VDC, 0.2 A, regulated
Power input requirements	12 VDC, 0.2 A (minimum)
Temperature/humidity	Storage: -40 to 158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32° to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Floor box mount	
RGB 460/464/468xi SC models	Steel City AFM floor box mountable
RGB 460xi MK	MK box mountable
RGB 468xi AKM UK .	Ackerman UK floor box mountable
All other models.....	Wall or furniture mountable
Enclosure type	Metal
Enclosure dimensions	
RGB 460xi 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 460xi MK faceplate...	3.4" H x 5.7" W x 0.1" D (8.6 cm H x 14.5 cm W x 0.3 cm D)
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 464xi/RGB 468Mxi 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 468xi 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 468xi AKM UK faceplate	3.0" H x 8.1" W x 0.6" D (7.6 cm H x 20.6 cm W x 1.5 cm D)
RGB 460 EC faceplates.....	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)
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" x 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)
RGB 460xi	0.5 lbs (0.2 kg)
RGB 460xi MK	0.5 lbs (0.2 kg)
RGB 464xi, RGB 468xi, RGB 468 Mxi	0.7 lbs (0.3 kg)
EC models	0.7 lbs (0.3 kg)
RGB 468xi AKM UK	0.8 lbs (0.4 kg)
Shipping weight	
RGB 468xi AKM UK	2 lbs (1 kg)
All other models.....	3 lbs (2 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

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