

Specifications — HSA 200 Series, HSA 222 Series

Video— HSA 200SE, HSA 200CE

Gain.....	0 dB, 0.6 dB, 1.2 dB, selectable (when input is 0.7 V _{p-p} , output is 0.7 V, 0.75 V, 0.8 V _{p-p})
Bandwidth.....	300 MHz (-3 dB)

NOTE ID bits are terminated on pins 4 and 11.

Video input— HSA 200S, HSA 200C

Number/signal type.....	1 VGA–QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors	(1) 15-pin HD female

Video input— HSA 200SE, HSA 200

Number/signal type.....	1 VGA–QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors	(1) 15-pin HD female
Nominal level	1.0 V _{p-p} for Y of component video 0.7 V _{p-p} for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 V _{p-p} with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 135 kHz
Vertical frequency.....	30 Hz to 170 Hz
Input coupling.....	DC

Video output— HSA 200S, HSA 200C

Number/signal type.....	1 pass-through VGA–QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors	5 BNC female on pigtails

Video outputHSA 200SE, HSA 200CE

Number/signal type.....	1 VGA–QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video
Connectors	5 BNC female on pigtails
Nominal level	1.0 V _{p-p} for Y of component video 0.7 V _{p-p} for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 V _{p-p}
Impedance.....	75 ohms
DC offset.....	±5 mV with input at 0 offset
Return loss.....	<-35 dB @ 5 MHz

NOTE Output resolution may vary depending on whether or not the Extender is attached to the computer at startup, and also on the type of computer being used.

Sync— HSA 200SE, HSA 200CE

Input type.....	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level component video sync
Output type.....	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level component video sync
Input level	2.0 V to 5.0 V _{p-p}
Output level.....	TTL: 5.0 V _{p-p} , unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	18.8 ns
Max. rise/fall time	4 ns
Polarity.....	Positive or negative (follows input)

Specifications — HSA 200 Series, HSA 222 Series, cont'd

Audio— HSA 200SE, HSA 200CE

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise	0.025% @ 1 kHz, 0.020% @ 20 kHz at nominal level
S/N	>90 dB at rated maximum output (21 dB, balanced)
Stereo channel separation	>75 dB @ 20 Hz to 20 kHz

Audio input— HSA 200S, HSA 200C

Number/signal type	1 stereo, unbalanced
Connectors	(1) 3.5 mm stereo female jack

Audio input— HSA 200SE, HSA 200CE

Number/signal type	1 stereo, unbalanced
Connectors	(1) 3.5 mm stereo female jack
Impedance	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+6 dBu, (balanced or unbalanced) at 1% THD+N

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output— HSA 200S, HSA 200C

Number/signal type	1 pass-through stereo, unbalanced
Connectors	(1) 3.5 mm, direct insertion captive screw connector, 3 pole

Audio output— HSA 200SE, HSA 200CE

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm direct insertion captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level	Unbalanced output: -10 dBV (316 mVrms) Balanced output: -2 dBu (632 mVrms)
Maximum level (Hi-Z)	>+14 dBu, balanced at 1% THD+N
Maximum level (600 ohm)	>+6 dBm, balanced at 1% THD+N

General

NOTE *The Universal AC outlet is fully compatible with Europlug, British, Indian, Danish, and Italian plug types. See the Universal AC outlet guide on the Extron Web site, www.extron.com, for compatibility details on all plug types.*

Power	
HSA 200SE/CE	Supplied by an external power supply
External power supply	
HSA 200SE/CE	100 VAC to 240 VAC, 50/60 Hz, external, to 12 VDC, 0.42 A, regulated
Power input requirements	
HSA 200SE/CE	12 VDC, 0.2 A
Temperature/humidity	
HSA 200SE/CE	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32° to +86 °F (0 to +30 °C) / 10% to 90%, noncondensing
Mounting	
Furniture mount	Yes
Enclosure type	Metal

Enclosure dimensions

CAUTION Use the appropriate metal Extron routing template or refer to the surface cutout dimensions here before cutting a hole in the furniture or other surface. Pay special attention to the direction the unit will face; the unit's connector access side is underlined. Extron is not responsible for miscut mounting holes.

HSA 200S, HSA 200SE — USA models

Top plate (outer rim). 6.470" W x 5.125" D
(16.43 cm W x 13.02 cm D)

Surface cutout (inside rim)
5.970 ±0.0325" W x 4.625 ±0.0325" D
(15.16 ±0.083 cm W x 11.75 ±0.083 cm D)

Top plate (inside tilt plate)
4.344" W x 3.000" D
(11.03 cm W x 7.62 cm D)

HSA 222S — USA model

Top plate (outer rim). 6.470" W x 5.125" D
(16.43 cm W x 13.02 cm D)

Surface cutout (inside rim)
5.970 ±0.0325" W x 4.625 ±0.0325" D
(15.16 ±0.083 cm W x 11.75 ±0.083 cm D)

Top plate (inside tilt plate)
4.660" W x 2.875" D
(11.84 cm W x 7.30 cm D)

HSA 200C, HSA 200CE — USA models

Top plate (outer rim). 6.500" diameter (16.51 cm diameter) circle

Surface cutout (inside rim)
6.000 ±0.0325" diameter (15.24 ±0.083 cm diameter) circle

Top plate (inside tilt plate)
4.344" W x 3.000" D
(11.03 cm W x 7.62 cm D)

HSA 200S, HSA 200SE, HSA 200C, HSA 200CE — USA models

Box (under surface)... 4.0" H x 4.6" W (front of unit) x 4.4" D (10.2 cm H x 11.7 cm W x 11.2 cm D)
without clamps
4.0" H x 8.0" W (front of unit) x 4.4" D (10.2 cm H x 20.3 cm W x 11.2 cm D)
with clamps

HSA 222S — USA model

Box (under surface)... 5.6" H x 5.3" W (front of unit) x 3.6" D (14.2 cm H x 13.5 cm W x 9.1 cm D)
without clamps
5.6" H x 8.6" W (front of unit) x 3.6" D (14.2 cm H x 21.8 cm W x 9.1 cm D)
with clamps

HSA 200S/HSA 200SE — international square models

Top plate (outer rim). 8.183" W x 6.375" D (20.79 cm W x 16.19 cm D)

Surface cutout (inside rim)
7.683 ±0.0325" W x 5.875 ±0.0325" D (19.51 ±0.083 cm W x 14.92 ±0.083 cm D)

Top plate (inside tilt plate)
5.90" W x 4.10" D (14.99 cm W x 10.41 cm D)

Specifications — HSA 200 Series, HSA 222 Series, cont'd

HSA 222S — international square models

Top plate (outer rim). 8.183" W x 6.375" D (20.78 cm W x 16.19 cm D)

Surface cutout (inside rim)

7.683 ±0.0325" W x 5.875 ±0.0325" D
(19.51 ±0.083 cm W x 14.92 ±0.083 cm D)

Top plate (inside tilt plate)

6.183" W x 3.75" D (15.70 cm W x 9.53 cm D)

HSA 200C/HSA 200CE — international circular models

Top plate (outer rim). 8.5" diameter (21.6 cm diameter) circle

Surface cutout (inside rim)

8.0 ±0.0325" diameter (20.3 ±0.083 cm diameter) circle

Top plate (inside tilt plate)

5.9" W x 4.1" D
(15.1 cm W x 10.4 cm D)

HSA 200 — international, all models

Box (under surface)... 4.0" H x 6.3" W (front of unit) x 5.0" D (10.2 cm H x 15.9 cm W x 12.7 cm D)
without clamps

4.0" H x 10.0" W (front of unit) x 5.0" D (10.2 cm H x 25.3 cm W x 12.7 cm D)
with clamps

HSA 222 — international, all models

Box (under surface)... 4.5" H x 6.6" W (front of unit) x 4.9" D (11.4 cm H x 16.8 cm W x 12.4 cm D)
without clamps

4.5" H x 10.3" W (front of unit) x 4.9" D (11.4 cm H x 26.2 cm W x 12.4 cm D)
with clamps

Product weight

HSA 200S, HSA 200C..... 4.0 lbs (1.8 kg)

HSA 222S..... 3.5 lbs (1.6 kg)

HSA 200SE, HSA 200CE... 5.0 lbs (2.3 kg)

Shipping weight

HSA 200S, HSA 200C, HSA 222S7 lbs (4 kg)

HSA 200SE, HSA 200CE... 8 lbs (4 kg)

Vibration..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety..... CE, CUL, CSA C/US, UL

EMI/EMC

HSA 200SE, HSA 200CE

CE, C-tick, FCC Class A, ICES, VCCI

MTBF..... 30,000 hours

Warranty..... 3 years parts and labor

NOTE All nominal levels are at ±10%.

NOTE Specifications are subject to change without notice.

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