

# Specifications

## HDMI 201, HDMI 201 A D Series

**NOTE:** This product consists of a transmitter (HDMI 201 Tx or HDMI 201 A D Tx) and a receiver (HDMI 201 Rx or HDMI 201 A D Rx) with twisted pair cables linking the transmitter and receiver.

**NOTE:** \*Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

### Video

Maximum data rate.....	4.95 Gbps (1.65 Gbps per color)
Maximum pixel clock.....	165 MHz
Resolution range.....	Up to 1920x1200 or 1080p @ 60 Hz
Formats .....	RGB and YCbCr digital video
Standards .....	DVI 1.0, HDMI

### Video input – Tx units

Number/signal type.....	1 single link HDMI (or DVI-D*)
Connectors.....	1 female HDMI type A

### Interconnection between transmitter and receiver

Connectors.....	2 female RJ-45 per unit for 2 cables connecting the transmitter and receiver
Termination standards.....	TIA/EIA T568A or T568B
Signal transmission distance	
1920x1200 or 1080p @ 60 Hz	
Extron STP201 cable.....	Up to 150' (45 m)
CAT 5/5e/6 STP .....	Up to 125' (38 m)
CAT 5/5e/6 UTP .....	Up to 100' (30 m)
720p/1080i or 1024x768 @ 60 Hz	
CAT 5/5e/6 UTP or STP or Extron STP201	200' (60 m)

**NOTE:** The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphics card, and display used in the system.

**NOTE:** Shielded twisted pair cable provides added protection from outside interference and increases overall signal transmission distance. Extron strongly recommends using shielded twisted pair for optimal performance.

### Video output – Rx units

Number/signal type.....	1 single link HDMI (or DVI-D*)
Connectors.....	1 female HDMI type A

### Audio – HDMI 201 A D Tx/Rx

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 0.06$ dB
THD + Noise.....	0.18% @ 1 kHz at nominal level
S/N.....	>76 dB at maximum output (unweighted)
Stereo channel separation.....	>63 dB @ 1 kHz

## Audio input – HDMI 201 A D Tx/Rx

### Number/signal type

HDMI 201 A D Tx .....	1 stereo, unbalanced
HDMI 201 A D Rx.....	1 stereo, balanced/unbalanced

### Connectors

HDMI 201 A D Tx .....	1 pair female RCA jacks (tip, ring)
HDMI 201 A D Rx.....	(1) 3.5 mm captive screw connector, 5 pole

### Impedance

HDMI 201 A D Tx .....	>10k ohms unbalanced, DC coupled
HDMI 201 A D Rx.....	>18k ohms unbalanced, 24k ohms balanced, DC coupled

### Nominal level

HDMI 201 A D Tx .....	-10 dBV (316 mVrms)
HDMI 201 A D Rx.....	+4 dBu (1.23 Vrms)

### Maximum level

HDMI 201 A D Tx .....	+6.3 dBu, unbalanced at 1% THD+N
HDMI 201 A D Rx.....	+16.6 dBu, unbalanced at 1% THD+N

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

## Audio output – HDMI 201 A D Tx/Rx

### Number/signal type

HDMI 201 A D Tx .....	1 stereo, balanced/unbalanced
HDMI 201 A D Rx.....	1 stereo, unbalanced

### Connectors

HDMI 201 A D Tx .....	(1) 3.5 mm captive screw connector, 5 pole
HDMI 201 A D Rx.....	1 pair female RCA jacks (tip, ring)

### Impedance

HDMI 201 A D Tx .....	50 ohms unbalanced, 100 ohms balanced
HDMI 201 A D Rx.....	50 ohms unbalanced

### Maximum level (Hi-Z)

HDMI 201 A D Tx .....	>11.4 dBu, balanced or unbalanced at 1% THD+N
HDMI 201 A D Rx.....	>5.3 dBu, unbalanced at 1% THD+N

### Maximum level (600 ohm)

HDMI 201 A D Tx .....	>5.1 dBm, balanced or unbalanced at 1% THD+N
HDMI 201 A D Rx.....	>4.7 dBm, unbalanced at 1% THD+N
	>+9 dBm, balanced or unbalanced at 1% THD+N

## Control/remote – external device (pass-through)

### Serial control port input

Transmitter .....	RS-232 via (1) 3.5 mm, 3 pole captive screw connector
Receiver .....	1 set of proprietary signals on a female RJ-45 jack

### Serial control port output

Transmitter .....	1 set of proprietary signals on a female RJ-45 jack
Receiver .....	RS-232 via a 3.5 mm, 3 pole captive screw connector

**NOTE:** Protocol is mirrored between the transmitter and the receiver.

Serial control pin configuration ..... Captive screw connectors: 1 = Tx, 2 = Rx, 3 = GND

## General

Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
HDMI 201 Tx .....	2.2 watts, 12 VDC
HDMI 201 Rx .....	4.0 watts, 12 VDC
HDMI 201 A D Tx .....	3.0 watts, 12 VDC
HDMI 201 A D Rx .....	4.0 watts, 12 VDC

**NOTE:** Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the CAT 5/5e/6 or Extron STP201 cables.

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	
HDMI 201 Tx, HDMI 201 Rx	
Rack mount .....	Yes, with optional 1U deep rack shelf
Furniture mount .....	Yes, with optional under-desk mounting kit
Pole mount .....	Yes, with optional pole mount kit
HDMI 201 A D Tx, HDMI 201 A D Rx	
Furniture mount .....	Wall or furniture mountable in a decorator-style opening
Enclosure type .....	Metal
Enclosure dimensions	
HDMI 201 Tx, HDMI 201 Rx ....	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
HDMI 201 A D Tx, HDMI 201 A D Rx	
Faceplate .....	2.6" H* x 1.3" W x 0.1" D (6.6 cm H* x 3.3 cm W x 0.3 cm D) (Fits the opening in a 1 gang decorator-style wallplate.) *Overall height is 4.1" (10.4 cm) including mounting tabs.
Device .....	2.7" H x 1.8" W x 1.25" D (6.9 cm H x 4.6 cm W x 3.2 cm D) (Height excludes mounting tabs, depth excludes connectors.)
Product weight .....	0.5 lbs (0.3 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

**NOTE:** \*\*CE and FCC testing is conducted with STP (shielded twisted pair) cable.

Warranty ..... 3 years parts and labor

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

**NOTE:** Specifications are subject to change without notice.

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).

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