

HDMI 201 Tx/Rx

HDMI EXTENDER

- Transmits HDMI signals over CAT 5/5e/6/7 cables
- Accommodates HDTV up to 1080p and computer-video up to UXGA
- HDCP compliant
- Two-way remote powering
- RS-232 pass-through



HDMI 201 Tx



HDMI 201 Rx

The Extron HDMI 201 Tx/Rx sends HDMI signals over distances of 200 feet or more using two standard CAT 5/5e/6/7 cables. The HDMI 201 Tx/Rx is ideal for professional and residential applications that require fully digital, long distance transmission of HDTV or high resolution computer-video signals.



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DESCRIPTION

The Extron **HDMI 201 Tx/Rx** is a transmitter and receiver set that enables HDMI - High Definition Multimedia Interface signals to be carried over distances significantly greater than the lengths of standard HDMI cables. Linked together using two economical and integration friendly CAT 5, CAT 5e, CAT 6, or CAT 7 UTP cables, the HDMI 201 Tx and HDMI 201 Rx work together to send HDTV and XGA (1024x768) resolution HDMI signals over 200 feet (60 meters).

This transmitter/receiver set fully supports HDMI for extending digital video, multi-channel audio, and control signals from HDMI-equipped devices. It is also HDCP compliant, enabling long distance transmission of HDTV signals with HDCP - High-bandwidth Digital Content Protection for copy protection of future digital television broadcasts, as well as the high resolution digital video output from current and forthcoming high definition DVD players.

For convenient, streamlined system integration, RS-232 signals can be transmitted over the same cabling as the HDMI signals, providing remote display control. Additionally, either the transmitter or receiver can be remotely powered over this cabling, so that external power is necessary for only one of the devices. The HDMI 201 Tx transmitter and HDMI 201 Rx receiver are housed in 1" (2.5 cm) high, quarter rack width metal enclosures.

FEATURES

- **Transmits HDMI and RS-232 signals over two CAT 5/5e/6/7 cables** – Standard UTP cables provide an economical, easily installed cable solution.
- **Sends 720p, 1080i, and XGA (1024x768) signals over 200 feet (60 meters), 1080p and UXGA (1600x1200) signals over 100 feet (30 meters)**
- **HDCP compliant** – The HDMI 201 Tx/Rx fully supports long distance transmission of HDCP signals.
- **Extends video, audio, and control signals** – The HDMI 201 Tx/Rx extends digital video, multi-channel audio, and control signals from HDMI-equipped devices.
- **Remote powering of transmitter or receiver** – Only one power supply is necessary to power both devices.
- **Bi-directional RS-232 pass-through** – Bi-directional RS-232 control signals can be transmitted alongside the HDMI signals, so that the remote display can be controlled without the need for additional cabling.
- **1" (2.5 cm) high, quarter rack width metal enclosures** – With low profile enclosures, both devices can be discreetly installed, such as behind a plasma or LCD flat-panel display.
- **External international power supply included, part # 70-055-01**

SPECIFICATIONS

VIDEO INPUT (HDMI 201 Tx)

Number/signal type.....	1 single link HDMI input
Connectors	1 HDMI female
Interconnection between transmitter and receiver	
Connectors.....	(2) RJ-45 per unit for 2 CAT5/5e/6/7 cables connecting the transmitter and receiver
Bit rate	5 Gbps total (1.65 Gbps per/color)

SIGNAL TRANSMISSION DISTANCE

HDTV (1080i or 720p) or 1024x768 @ 60 Hz	
CAT 5/5e/6/7 cable.....	200' (60 m)
HDTV (1080p) or 1600x1200 @ 60Hz	
CAT 7 cable	125' (38 m)
CAT 5/5e/6 cable.....	100' (30 m)
NOTE: The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphic card, and display used in the system.	

SIGNAL TYPES AND STANDARDS

Digital video	RGB digital video (DVI and HDMI standards), actively buffered YCrCb digital component video (HDMI standard), actively buffered. All single link DVI and HDMI signal formats are supported including 640x480 @ 60 Hz through 1600x1200 @ 60 Hz computer video, and also 480p, 720p, 1080i, and 1080p HDTV signals.
HDCP	HDCP (High-bandwidth Digital Content Protection) using the DVI and HDMI standards (for video, actively buffered, transmitted through DDC lines)
Digital audio	HDMI audio, actively buffered (transmitted through RGB and YCrCb lines)
RS-232	RS-232 serial data (pass-through) (on a 3.5 mm captive screw connector, 3 pole)
CEC	Consumer Electronics Control (CEC) wired infrared data using the HDMI standard (pass-through)
EDID (DDC)	EDID (Extended Display Identification Data) and DDC (display data channel) using DVI and HDMI standards (actively buffered)
HPD	HPD (Hot Plug Detection of display, pass-through)

VIDEO OUTPUT (HDMI 201 Rx)

Number/signal type.....	1 single link HDMI
Connectors	1 HDMI female

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, 6 W max., external, autoswitchable; to 12 VDC, 1 A, regulated
Power input requirements.....	12 VDC, 0.4 A for both transmitter and receiver
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; 1U 6" deep rack shelf, part #60-190-10, 60-604-10; or VersaTools® rack shelf, part #60-190-20 or 60 604 20. Also furniture mountable with optional Through-Desk Mounting Kit, #70-077-02, or attachable to a projector mount using optional kit #70-526-02.
Enclosure type	Metal
Enclosure dimensions.....	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.)
Product weight.....	0.5 lbs (0.3 kg)
Shipping weight	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.....	30,000 hours
Warranty	3 years parts and labor
NOTE: All nominal levels are at ±10%.	

Model	Version Description	Part Number
HDMI 201 Tx/Rx	HDMI Extender	60-806-01

Specifications are subject to change without notice.



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