

# CAT-5 EXTENDER

## HDMI over Signal CAT-5 with Monitor Out, IR, RS-232, Keyboard and Mouse

### TRANSMITTER



Model: **CAT-HDX11MT/A1**

### RECIEVER



Model: **CAT-HDX11R/A1**

Tx Specification:		
Technical	CAT-HDX11MT/A1	
Input	1 x HDMI (*19 pin female) 1 x Keyboard (*PS-2) 1 x Mouse (*PS-2)	
Output	1 x RJ45 1 x Monitor 1 x IR	
Control port	1 x RS-232 (*3 pin Terminal block)	
HDMI Compliance	1080p 60Hz 1.3	
DVI Compliance	DVI 1.1	
HDCP Compliance	YES	
Video Bandwidth	Single-link 225 MHz (6.75 Gbps)	
Video Support	Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color	
Audio Support	Surround Sound (up to 7.1ch) or Stereo digital Audio	
Transmitter Range	Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable	
Input TMDs Signal	1.3 Volts (peak to peak)	
Input DCC	Signal 5 Volts (peak to peak, TTL)	
ESD Protection	[1] Human body model ±15kV [air-gap discharge] & ±15kV [contact discharge] [2] Core chipset ±15kV	
PCB Stack-up	6-layer board impedance Control- differential 100ohm: single 50ohm	
Power Supply	12 V DC 1A	
Operation Temperature	0~40°C [32~104°F]	
Storage Temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	
Mechanical		
Housing	Metal enclosure	
	Product	Package
Dimensions (L x W x H)	190 x 103 x 30mm	265 x 180 x 80 mm
Weight	445g (equipment only)	750g each
Package include	1 x Power adaptor 1 x Switcher 1 x User Manual and Box	
Rx Specification:		
Technical	CAT-HDX11R/A1	
Input	1 x RJ45 1 x IR Receiver	
Output	1 x Keyboard 1 x Mouse 1 x HDMI	
Control port	1 x RS-232 (*3 pin Terminal block)	
HDMI Compliance	1080p 60Hz 1.3	
DVI Compliance	DVI 1.1	
HDCP Compliance	YES	
Video Bandwidth	Single-link 225 MHz (6.75 Gbps)	
Video Support	Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color	
Audio Support	Surround Sound (up to 7.1ch) or Stereo digital Audio	
Transmitter Range	Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable	
Input TMDs Signal	1.3 Volts (peak to peak)	
Input DCC Signal	5 Volts (peak to peak, TTL)	
ESD Protection	[1] Human body model ±15kV [air-gap discharge] & ±15kV [contact discharge] [2] Core chipset ±15kV	
PCB Stack-up	6-layer board impedance Control-96 differential 100ohm: single 50ohm	
Power Supply	12 V DC 1A	
Operation Temperature	0~40°C [32~104°F]	
Storage Temperature	-20~60°C [-4~140°F]	
Relative Humidity	20~90% RH [no condensation]	
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### PRODUCT DESCRIPTION

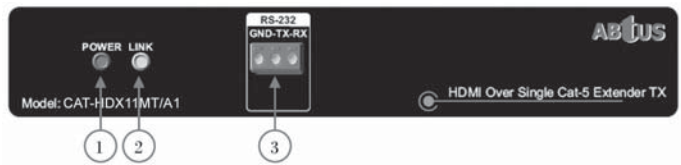
**ABtUS CAT-HDX11MT/A1**, a HDMI over Cat-5 Extender that sends lossless “Full HD 1080p” HDMI, RS-232 pass through, IR signals loop back, Keyboard/Mouse and even power over a single economical Cat-5e cables. Extending state-of-the-art Full HD digital video displays, computer monitors and touch screens has never been easier and cost effective.

Support distances up to 330 feet/100meter at a Full HD 1080p resolution are guaranteed to perform beautifully, giving you a reliable method of all-digital extension while streamlining your installation cabling needs. (\*\*Support cable length are tested base on ABtUS standard Cat-5e UTP Cable and it may differ due to the rating and/or the standard of the each cable used)

### PRODUCT HIGHLIGHTS

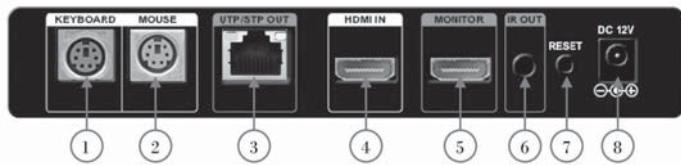
- Full HD Over single economical Cat-5e cables
- Support distances up to 330 feet / 100meter at a Full HD 1080p resolution
- With RS232 Full duplex, IR pass through and Keyboard / Mouse extension
- Power over LAN (\*Only One Power adaptor is required at either Tx or Rx)
- Integrated with Local Monitor output (\*\*Depending on model)

## FRONT PANEL VIEW CAT-HDX11MT/A1



Item	Description
1.	Power Indicator (LED)
2.	Link Indicator (LED)
3.	RS-232 pass through Control port

## BACK PANEL VIEW



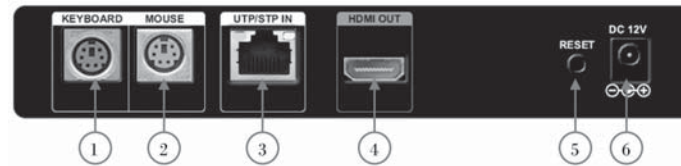
Item	Description	Item	Description
1.	For Keyboard connection	5.	HDMI Output to local monitor/TV
2.	For Mouse connection	6.	IR pass through from Rx for control source device
3.	Cat-5 Output connected to Rx	7.	For system reset if transmission fault
4.	HDMI Input for source connection	8.	For supply of power to device

## FRONT PANEL VIEW CAT-HDX11R/A1



Item	Description
1.	Power Indicator (LED)
2.	Link Indicator (LED)
3.	RS-232 pass through Control port

## BACK PANEL VIEW



Item	Description	Item	Description
1.	Keyboard For Keyboard connection	4.	HDMI OUT HDMI Output to Monitor/TV connection
2.	Mouse For Mouse connection	5.	RESET For system reset if transmission fault
3.	UTP/STP IN Cat-5 Input connected from Tx	6.	DC 12 V For supply of power to device

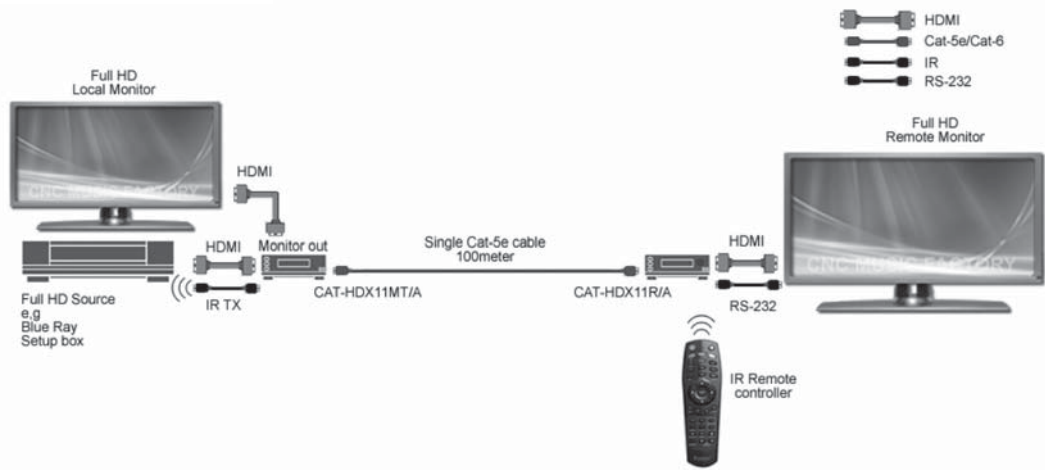
## PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

Cable Rating		Type of Category Cable		
Wiring	Shielding	CAT-5e	CAT-6	CAT-7
Solid	Unshielded (UTP)	☆☆☆	☆☆☆☆	☆☆☆☆☆
	Shielded (STP)	☆☆☆	☆☆☆	☆☆☆☆
Standard	Unshielded (UTP)	☆	☆☆	☆☆
	Shielded (STP)	☆	☆	☆☆
Termination		Please use EIA/TIA 568-B termination (T568B) at any time		

EIA/TIA 568B	
PIN No.	Wire Color
1	Orange/White
2	Orange
3	Green/White
4	Blue
5	Blue/white
6	Green
7	Brown/White
8	Brown

**\*\*Note:**  
Because the quality of the category cables has the major effect on how long the transmission limit can achieve and how good is the received picture quality, the actual transmission range is subject to one's choice of Cat-5e/6/7 cables.

### Configuration Diagram:



### Typical Application

Any integration that required simple and cost effective HDMI over long Cat-5 extender solution  
• Schools (Lab, Hall ect.) • Churches • Corporate Applications (Function Room) • Rental • Home

\*\*Specification are subjected to changes without notice. . . for detail and updated information please visit [www.abtussingapore.com](http://www.abtussingapore.com)