

CAT-5 EXTENDER

HDMI over Signal CAT-5 with IR and RS-232

Tx Specification:	
Technical	CAT-HDX11T/A
Input	1 x HDMI (*19 pin female)
Output	1 x RJ45 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 $\pm 15kV$ [air-gap discharge] & $\pm 15kV$ [contact discharge] [2] Core chipset $\pm 15kV$
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/A
Input	1 x RJ45 1 x IR Receiver
Output	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 $\pm 15kV$ [air-gap discharge] & $\pm 15kV$ [contact discharge] [2] Core chipset $\pm 15kV$
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]
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

TRANSMITTER



Model: CAT-HDX11T/A

RECIEVER



Model: CAT-HDX11R/A

PRODUCT DESCRIPTION

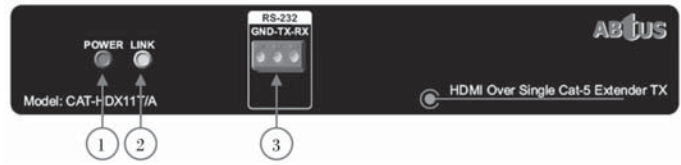
ABtUS CAT-HDX11T/A, a HDMI over Cat-5 Extender that sends lossless “Full HD 1080p” HDMI, RS-232 pass through, IR signals loop back, Keyboard/Mouse and even power over a single economical Cat-5e cables. Extending state-of-the-art Full HD digital video displays, computer monitors and touch screens has 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

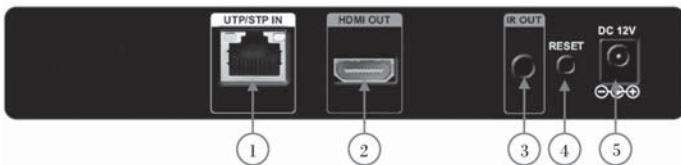
- Full HD Over single economical Cat-5e cables
- Support distances up to 330 feet / 100meter at a Full HD 1080p resolution
- With RS232 Full duplex, IR pass through and Keyboard / Mouse extension
- Power over LAN (*Only One Power adaptor is required at either Tx or Rx)
- Integrated with Local Monitor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

FRONT PANEL VIEW CAT-HDX11T/A



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

BACK PANEL VIEW



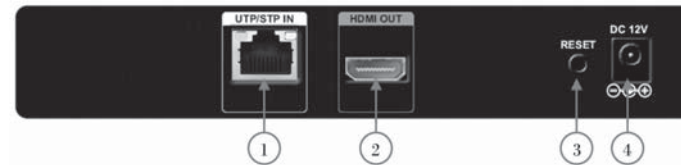
Item	Description	Item	Description
1.	Cat-5 Output connected to Rx	4.	For system reset if transmission fault
2.	HDMI Input for source connection	5.	For supply of power to device
3.	IR pass through from Rx for control source device		

FRONT PANEL VIEW CAT-HDX11R/A



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

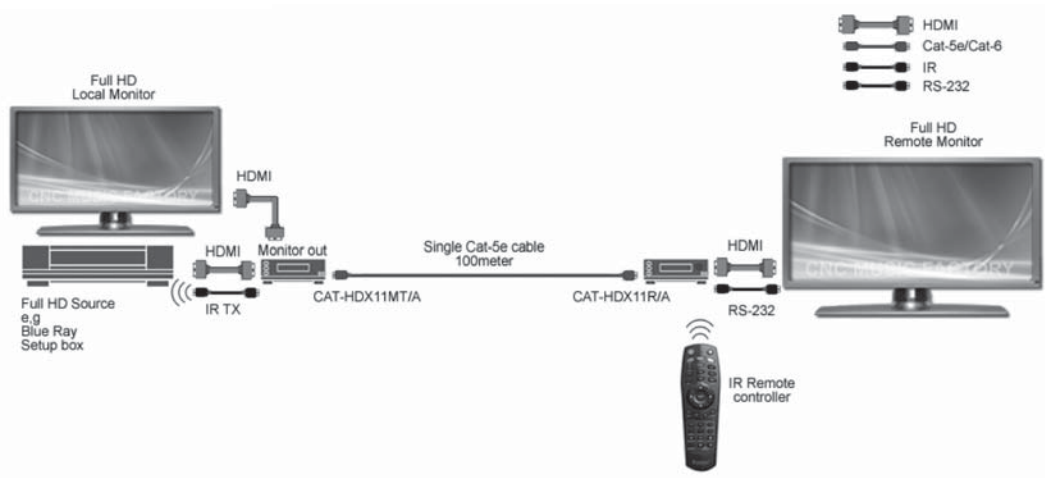
PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

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