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 to7.1ch) 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
	200 x 100 x 00 mm
	445a (equipment only) 750a each
Weight	445g (equipment only) 750g each
	1 x Power adaptor
Weight	1 x Power adaptor 1 x Switcher
Weight Package include	1 x Power adaptor
Weight Package include Rx Specification:	1 x Power adaptor 1 x Switcher 1 x User Manual and Box
Weight Package include Rx Specification: Technical	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1
Weight Package include Rx Specification:	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45
Weight Package include Rx Specification: Technical Input	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver
Weight Package include Rx Specification: Technical	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard
Weight Package include Rx Specification: Technical Input	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse
Weight Package include Rx Specification: Technical Input	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard
Weight Package include Rx Specification: Technical Input Output Control port	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse
Weight Package include Rx Specification: Technical Input	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI
Weight Package include Rx Specification: Technical Input Output Control port	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HOMI 1 x RS-232 (*3 pin Terminal block)
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps)
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Kouse 1 x HOMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HOMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to 7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak)
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMOS Signal Input DCC Signal	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak, TL)
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input TMDS Signal ESD Protection	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x RJ45 1 x Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV][contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Audio Support Audio Support Audio Signal Input TDCS Signal Input TDCS Signal ESD Protection PCB Stack-up Power Supply Operation Temperature	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0~40°C [32~104°F]
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Audio Support Transmitter Range Input TMDS Signal Input TMDS Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x RJ45 1 x Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 x Bouse 1 x HDMI 1 x HDMI 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1 y HDM (1900 (1907) (*3 pin Terminal block) 1 y HDM (1900 (1907) (*3 pin Terminal block) 5 Volts (peak to peak) 5 Volts (peak to peak) 5 Volts (peak to peak, TL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-110°F] -20-60°C [-4-140°F]
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Storage Temperature Relative Humidity	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0~40°C [32~104°F]
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Storage Temperature Relative Humidity Mechanical	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HOMI 1 x RS-232 (*3 pin Terminal block) 1 080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-114°F] -20~60°C [-4~140°F] 20~90% RH [no condensation]
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Storage Temperature Relative Humidity	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV][contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-104°F] -20~60°C [-4-140°F] 20~90% RH [no condensation] Metal enclosure
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance DVI Compliance Video Bandwidth Video Support Audio Support Audio Support Transmitter Range Input TMDS Signal Input TMDS Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Relative Humidity Mechanical Housing	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-104°F] -20~60°C [-4-140°F] 20~90% RH [no condensation] Metal enclosure Product Package
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Storage Temperature Relative Humidity Mechanical	1 x Power adaptor 1 x Switcher 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) ** distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV][contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-104°F] -20~60°C [-4-140°F] 20~90% RH [no condensation] Metal enclosure
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance DVI Compliance Video Bandwidth Video Support Audio Support Audio Support Transmitter Range Input TMDS Signal Input TMDS Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Relative Humidity Mechanical Housing	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-104°F] -20~60°C [4-140°F] -20~60°C RH [no condensation] Metal enclosure Product Package 190 x 103 x 30mm 265 x 180 x 80 mm
Weight Package include Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Storage Temperature Relative Humidity Mechanical Housing Dimensions (L x W x H) Weight	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV][contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-114°F] -20~60°C [-4~140°F] -20~60°C [-4~140°F] 20~90% RH [no condensation] Metal enclosure Product Package Podu to 2x 30mm 265 x 180 x 80 mm 445g (equipment only) 750g each
Weight Package include Rx Specification: Technical Input Output Control port HDMI Compliance DVI Compliance HDCP Compliance Video Bandwidth Video Bandwidth Video Support Audio Support Transmitter Range Input TMDS Signal Input DCC Signal ESD Protection PCB Stack-up Power Supply Operation Temperature Storage Temperature Relative Humidity Mechanical Housing Dimensions (L x W x H)	1 x Power adaptor 1 x Switcher 1 x User Manual and Box CAT-HDX11R/A1 1 x RJ45 1 x IR Receiver 1 x Keyboard 1 x Mouse 1 x HDMI 1 x RS-232 (*3 pin Terminal block) 1080p 60Hz 1.3 DVI 1.1 YES Single-link 225 MHz (6.75 Gbps) Up to WUXGA (1920x1200@60Hz) & 1080p@60Hz 36-bit color Surround Sound (up to7.1ch) or Stereo digital Audio Full HD (1080p) up to 100m (330ft) **distance are measured base on ABtUS CAT-5e UTP cable 1.3 Volts (peak to peak) 5 Volts (peak to peak, TTL) [1] Human body model ±15kV [air-gap discharge] & ±15kV [[contact discharge] [2] Core chipset ±15kV 6-layer board impedance Control-'96 differential 100ohm: single 50ohm 12 V DC 1A 0-40°C [32-104°F] -20~60°C [4-140°F] -20~60°C RH [no condensation] Metal enclosure Product Package 190 x 103 x 30mm 265 x 180 x 80 mm

CAT-5 EXTENDER

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



Model: CAT-HDX11MT/A1

Model: CAT-HDX11R/A1

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 stateof-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)

**Specification are subjected to changes without notice. . . for detail and updated information please visit www.abtussingapore.com

ABtUS SINGAPORE PTE LTD

User Operation Guide

FRONT PANEL VIEW





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



BACK PANEL VIEW



Item	Description	ltem	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)	$\bigstar \bigstar \bigstar$	$\bigstar \doteqdot \bigstar \bigstar$	* * * * *	
	Shielded (STP)	$\bigstar \bigstar \bigstar$	$\bigstar \bigstar \bigstar$	$\bigstar \bigstar \bigstar \bigstar$	
04 1 1	Unshielded (UTP)	*	☆ ☆	☆ ☆	
Standard	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

