



4K 60Hz and HDCP2.2 supported HDBaseT Extender

HDC-H100-C

The IDK HDC-H100-C is an extender for HDBaseT signals using one twisted pair cable to transmit that data over a long distance. The HDC-H100-C supports 4K 60Hz and video signals are extended as digital signals, and not converted into analog signals. The HDC-H100-C also supports bidirectional RS-232C communication and LAN communication.

■ Specification

Item		Description	
Model number		HDC-TH100-C (Transmitter)	HDC-RH100-C (Receiver)
Input	Video	Number / Signal	1 input / HDMI (*1) - HDCP 1.4 / 2.2: Pass through (*2) - CEC: Pass through - TMDS clock: 25 MHz to 340 MHz - Dot clock: 25 MHz to 600 MHz
		Connector	1 female HDMI Type A (*3)
		Others	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats	480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4) VGA to 4K (*4)
	Audio	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels
	Connector	1 female HDMI Type A	1 RJ-45
Output	Video	Number / Signal	1 output / HDBaseT
		Connector	1 RJ-45
		Others	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats	480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4) VGA to 4K (*4)
	Audio	Number / Signal	1 output / Multi-channel linear PCM up to 8 channels
	Connector	1 RJ-45	1 female HDMI Type A
Plug & Play		Pass through	
Twisted pair cables		Cat6 UTP/STP cable, Cat5e UTP/STP cable (*6)	
Signal transmission distance (*7)		Up to 1080p: 330ft (approx.) / 100 m (using a Cat6 UTP / STP cable) 4K format: 330ft (approx.) / 100 m (using a Cat6 STP / Cat5e STP cable)	
Control	Serial control port	Number / Signal	1 port / Full duplex Max. 115.2kbps
		Connector	1 male 9-pin D-Sub
	LAN control port	Number / Signal	1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI/MDI-X
		Connector	1 RJ-45
Others	AC adapter	Input: 100 - 240 VAC ± 10%, 50 Hz/60 Hz ± 3 Hz Output: 5VDC 3A 15Watt (AC adapter is supplied)	
	Power consumption	Around 4 Watt	Around 7 Watt
	Dimensions	4.17 × 1.08 × 3.94" (approx.) / 106 (W) × 27.5 (H) × 100 (D) mm (Quarter rack size, not including projections)	
	Weight	0.88 lbs. (approx.) / 0.4kg	
	Temperature	Operating: 32°F to 104°F / 0°C to +40°C Storage: -4°F to +176°F / -20°C to +80°C	
	Humidity	Operating/ Storage : 20 % to 90 % (Non Condensing)	

(*1) HEC, ARC are not supported.

(*2) DVI signals with HDCP not supported. If extending DVI signals protected with HDCP, please use an IDK HDBaseT product supporting DVI signals.

(*3) Please use an HDMI cable shorter than 2 m.

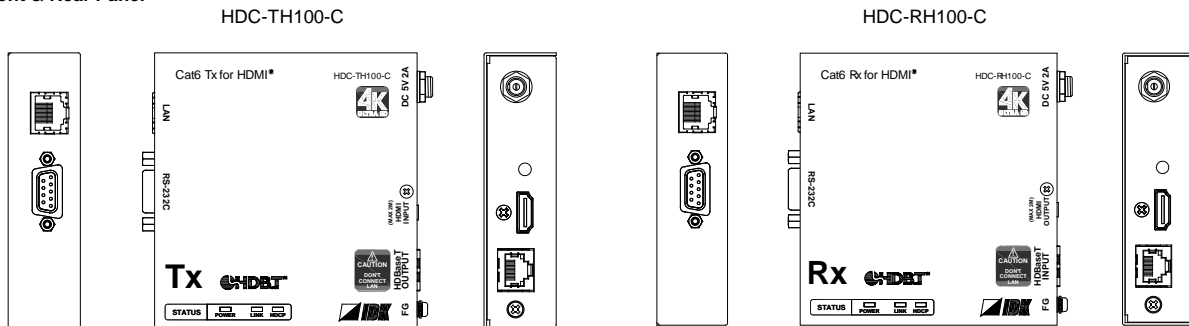
(*4) 4K signals are only supported 24 Hz / 25 Hz / 30 Hz. / 60Hz (4:2:0)

(*5) 4K signals are only supported 24 bit.

(*6) T568A or T568B are straight wiring. If exceeding 50 m, it is recommended to use a Cat6 UTP / STP cable.

(*7) Max. Extension distance of the Cat6 UTP / STP cable is the shorter one of Tx, Rx or sink device connected to this device.

■ Front & Rear Panel

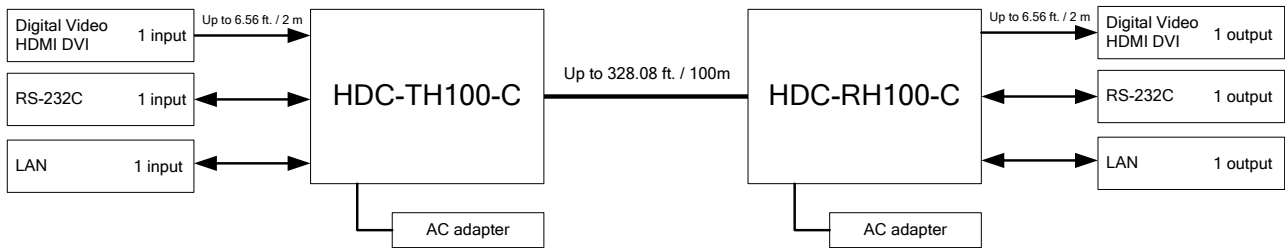


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4K 60Hz and HDCP2.2 supported HDBaseT Extender HDC-H100-C Diagram and Features

■ Diagram



[Features]

■ Video

- Supports up to 4K (supported 24 Hz / 25 Hz / 30 Hz / 60Hz)
- Extends output signal up to 330ft (approx.) / 100 m using a Cat6 twisted pair cable
- No substantial transmission delay (under 10 μ s per 330ft (approx.) / 100 m)

■ Others

- HDCP 1.4 / 2.2 (Pass through)
- CEC (Pass through)
- AC adapter mechanical lock

* If you want to transmit 4K format more than 230 ft. / 70 m, IDK recommends you to use Cat6 STP cable / Cat5e STP cable.

* If you want to transmit signal using UTP cable and the distance is more than 164 ft. / 50 m, IDK recommends you to use Cat6 UTP cable