



HDC-H100-C

■ Description

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 support 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	1 input / HDBaseT
		Connector	1 female HDMI Type A (*3)	1 RJ-45
		Others	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*4)	
		Formats	480i/480p/576i/576p/720p/1080i/1080p/4K (*5) VGA to 4K (*5)	
	Audio	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels	1 input / HDBaseT
		Connector	1 female HDMI Type A	1 RJ-45
Output	Video	Number / Signal	1 output / HDBaseT	1 output / HDMI (*1) - HDCP 1.4 / 2.2: Pass through (*2) - CEC: Pass through - TMDS clock: 25 MHz to 340 MHz
		Connector	1 RJ-45	1 female HDMI Type A (*3)
		Others	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*4)	
		Formats	480i/480p/576i/576p/720p/1080i/1080p/4K(*5) VGA to 4K (*5)	
	Audio	Number / Signal	1 output / HDBaseT	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)			330ft (approx.) <100 m> (using a Cat6 UTP / STP cable) 4K format: 230ft (approx.) <70m> (Using a Cat6 UTP / 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 2A 10Watt (AC adapter is supplied)	
	Power consumption		Around 4 Watt	Around 7 Watt
	Dimensions		4.17(W)×1.08(H)×3.94(D)* (approx.) <106(W)×27.5(H)×100(D)mm> (Quarter rack, not including projections)	
	Weight		0.88 lbs. (approx.) <0.4kg>	
	Temperature		Operating temperature: 32°F to 104°F<0°C to +40°C> Storage temperature: -4°F to +176°F<-20°C to +80°C>	
	Humidity		Operating/ Storage humidity: 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 twisted pair cable 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.

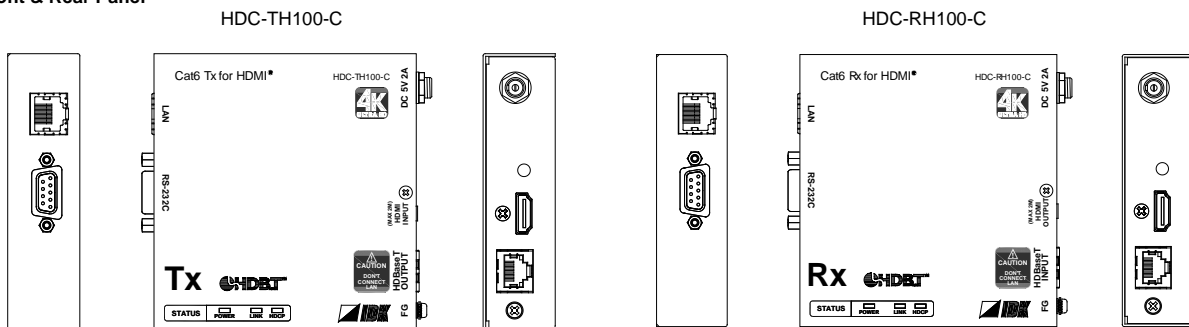
(*7) Max. Extension distance of the Cat6 UTP / STP cable is the shorter one of Tx, Rx or sink device connected to this device.

	With HDCP*	Without HDCP
HDMI	○	○
DVI	✕	○

(○: Supported, ✕: Not supported)

*If destination device is in extremely poor condition, image may be distorted. As some of LCD monitors do not operate stabilized, please have an evaluation before using or ask IDK.

■ Front & Rear Panel

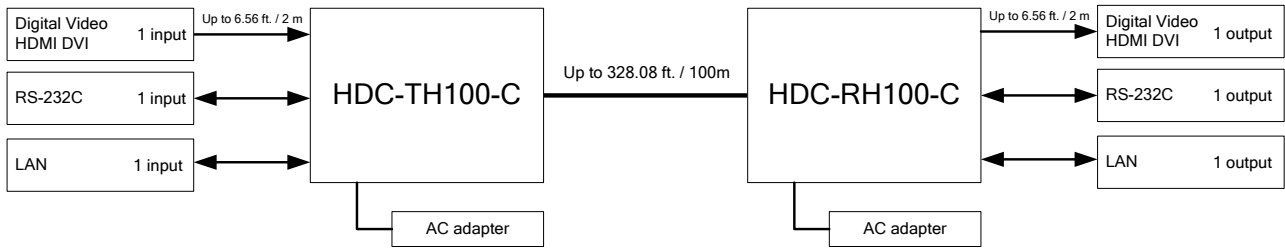


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4K 60Hz and HDCP2.2 supported HDBaseT Extender HDC-H100-C Diagram and Features

[Connection 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/330ft (approx.))

■ 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

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