



HDC-H100-C

The IDK HDC-H100-C is an extender for long haul transmissions of HDMI signals over twisted pair cabling.

The HDC-H100-C supports 4K 60Hz and transmits signals without compression so that the quality of these signals can be kept. The HDC-H100-C also supports bidirectional RS-232C communication and LAN transmission.

■ 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)
	Audio	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels
		Connector	1 female HDMI Type A
		Formats	480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4) VGA to 4K (*4)
Output	Video	Number / Signal	1 output / HDBaseT
		Connector	1 RJ-45
		Others	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
	Audio	Number / Signal	1 output / Multi-channel linear PCM up to 8 channels
		Connector	1 RJ-45
		Formats	480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4) VGA to 4K (*4)
Plug & Play		Pass through	
Twisted pair cables		Cat5e UTP / STP, Cat6 UTP / STP, and CAT.5E HDC cables (*6)	
Signal transmission distance (*7)		Up to 330 ft./100 m (4K format: when Cat5e STP, Cat6 STP, or CAT.5E HDC cable is used)	
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 and ARC are not supported.

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

(*3) Please use an HDMI cable shorter than 6.5 ft./ 2 m.

(*4) For 4K format: 24 Hz / 25 Hz / 30 Hz / 50 Hz (4:2:0) / 59.94 Hz (4:2:0) / 60 Hz (4:2:0)

(*5) For 4K format:

• 24 Hz / 25 Hz / 30 Hz: 24 bit (RGB, YCbCr 4:4:4)

: 24 bit, 30 bit, 36 bit (YCbCr 4:2:2)

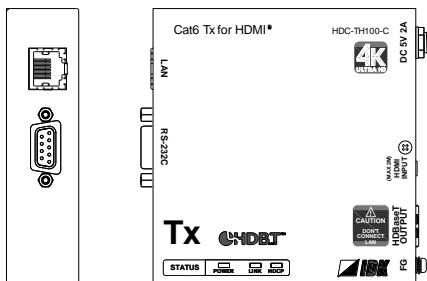
• 50 Hz / 59.94 Hz / 60 Hz: 24 bit (YCbCr 4:2:0)

(*6) T568A or T568B straight wiring CAT.5E HDC cable is developed by IDK and meets requirements set by the HDBaseT alliance.

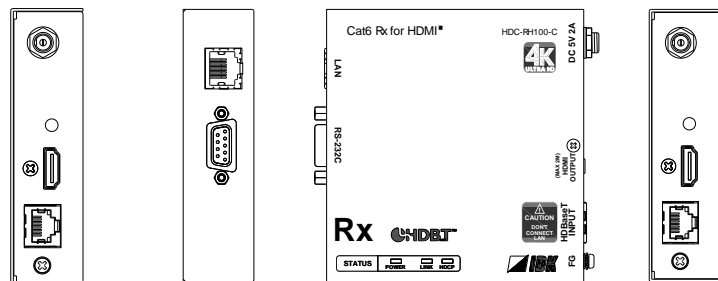
(*7) The max. extension distance is the shorter one of Tx/Rx / sink device connected to the HDC-H100-C.

■ Front & Rear Panel

HDC-TH100-C



HDC-RH100-C

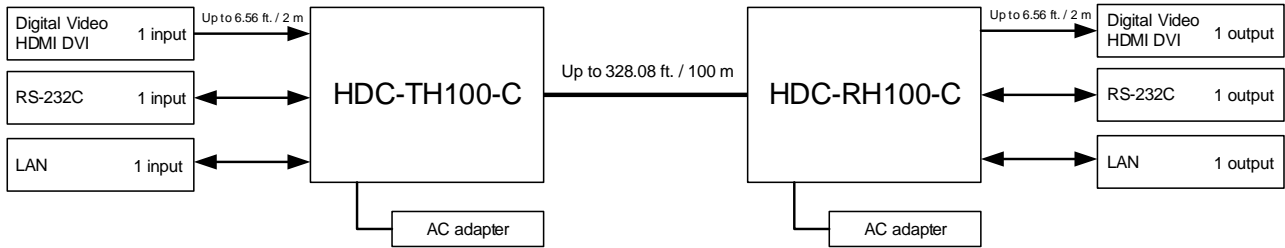


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4K 60Hz and HDCP2.2 supported HDBaseT Extender HDC-H100-C Diagram and Features

■ Diagram



[Features]

■ Video

- Supports up to 4K@60 (supports 24 Hz / 25 Hz / 30 Hz / 50 Hz (4:2:0) / 59.94 Hz (4:2:0) / 60 Hz)
- Extends transmission distance up to 330 ft. / 100 m using a Cat6 /Cat5e STP cable (4K@60)
- Extends transmission distance up to 330 ft. / 100 m using a Cat6 UTP cable^{*1}
- Transmits signals using Cat5e UTP cable^{*2}
- No substantive transmission delay (under 10μsec per 330 ft. / 100 m)

■ Others

- HDCP 1.4 / 2.2 (Pass through)
- CEC (Pass through)
- AC adapter with locking mechanism

^{*1} If you want to transmit 4K format longer than 230 ft. / 70 m, Cat6 STP cable / Cat5e STP cable are recommended.

^{*2} If you want to transmit signals longer than 164 ft. / 50 m, Cat6 UTP cable is recommended.