

## HDMI2.1 高清视频线

### NEH-ABE-XX

#### 1. Applications

- Flat Panel TV
- Virtual Reality
- Video Game Console
- Wearable Camera
- Desktop PC
- Smart Phone
- Media Tablet
- Media Stick



#### 2. Features

- Higher Resolutions
- Fater Refresh Rates
- Dynamic HDR
- Ultra High Speed HDMI Cable
- eARC
- Enhanced Refresh Rate Features
- Auto Low Latency Mode

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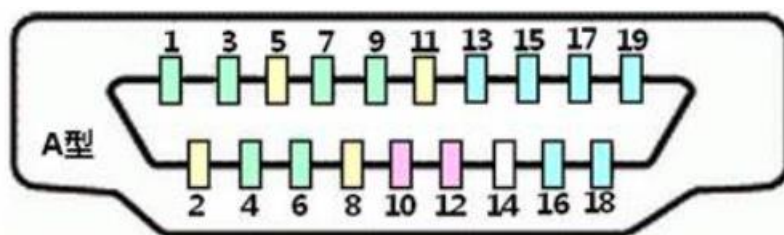
Web: <https://www.terabitcom.com/>

### 3. Description

High-Definition Multimedia Interface (HDMI) is a digital video/audio interface technology. It is a dedicated digital interface suitable for image transmission. It can transmit audio and video signals at the same time. The maximum data transmission speed is 48GB. /s;

HDMI, the full name of English is HighDefinition Multimedia Interface, Chinese name is the abbreviation of high-definition multimedia interface. HDMI delivers high-quality uncompressed HD video and multi-channel audio data at up to 48Gbps. At the same time, it is not necessary to perform digital/analog or analog/digital conversion before signal transmission, which can ensure the highest quality video and audio signal transmission.

## 4. Pin Definitions



PIN	Signal Assignment	PIN	Signal Assignment
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+

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5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Utility
15	SCL	16	SDA
17	DCC/CEC Ground	18	5V Power
19	Hot Plug Detect		

1-9 are the pins actually used by TMDS data transmission, divided into 0, 1, and 2 groups.  
10-12 is the TMDS clock signal. The TMDS clock is like packing a pixel. One clock transmits one pixel of R, G, B (8bit) signals on three channels.

13 is CEC (consumer electronic control) similar to an extended HDMI function, CEC is a complete set of protocols, electronic devices can use CEC signals to allow users to control the devices connected to the HDMI interface.

14 is a reserved pin, unused (or one more pin can be provided for CEC)

15-16 is the I2C pin for DDC (mainly used for EDID and HDCP transmission).

17 is the ground pin

18 is 5v AC pin

19 For the Hotplug pin (used to monitor whether the HDMI device exists or not, if it exists (Hotplug is high) then the DDC can be read by the DDC

## 4. Order Information

