Type-C to HDMI Female Convertor

C2H-711 provides a Type-C Male to HDMI-DVI Female converter cable.

The Display Port receiver is compliant with Display Port 1.4 specification and supports up to 4096x2160/60Hz resolution with configurable 1, 2 or 4 lanes configuration at 8.1(HBR3), 5.4(HBR2), 2,7(HBR), and 1.62(RBR) Gbps per lane. The HDMI transmitter is compliant with HDMI 2.0 and supports up to 4096x2160/60Hz resolution. Copy protection is provided by encryption with HDCP 1.4 and factory pre-loaded HDCP key.

USB Type-C interface:

C2H-711 supports 4 Configuration Channels (CC) and integrates complete Rp and Rd resistors of CC for two USB Type-C receptacles. USB Type-C interfaces are compliant with USB Power Delivery Specification Revision 3.0.

Display Port Alternate mode:

One of the USB Type-C interface uses USB Power Delivery Structured Vendor Defined Messages (Structured VDMs) to enable Display Port Alternate Mode and supports USB Billboard function if required.

When USB Type-C receptacle behaves as a Display Port Sink, pin assignment C, D and E are detected for the USB Type-C connector pins A2-A3, A8, A10-A11 and B2-B3, B8, B10-B11.

Display Port™ receiver

The Display Port receiver is compliant with Display Port Specification Revision 1.2 and consists of a Main link, an auxiliary channel (AUX CH), and a Hot-Plug Detect (HPD) signal.

• Main Link – Main Link is a unidirectional, high-bandwidth channel that transports video and audio over 1, 2, or 4 lanes at 8.1(HBR3), 5.4(HBR2), 2,7(HBR), and 1.62(RBR) Gbps per lane. The clock is embedded in 8b/10b encoded serial data.

• AUX CH – The AUX CH is 1 Mbps half-duplex bidirectional channel used for link management and device control.

AUX CH is used to transports EDID as well. / HPD – The HPD signal serves as an interrupt request to detect its presence.

The Display Port receiver supports VESA or CEA resolution up to 4096x2160/60Hz, color depth up to 30 bits and down Spread Spectrum Clocking (SSC). Protected content is supported by decryption with HDCP 1.3 and DPCP.

For supporting USB Type-C (Display Port Alternate mode) pin assignment C, D and E, the Display Port receiver provides data lane swap capability.

High Definition Multimedia Interface (HDMI™) transmitter:

The HDMI transmitter is compliant with HDMI 2.0 Specification and consists of three color channels accompanied by a single clock channel. Based on TMDS encoding, the HDMI protocol allows each color channel to transfer individual RGB colors, audio data and auxiliary data between source and sink devices. TMDS encoding is based on 8b/10b algorithm. The maximum clock rate is 594 MHz and the maximum total throughput is 14.256 Gbps (4.752 Gbps/channel).

The HDMI transmitter supports VESA or CEA resolution up to 4096x2160/60Hz, color depth up to 30 bits and IEC 60985 L-PCM with sample rate of 32 kHz, 44.1 kHz and 48 kHz. Copy protection is provided by encryption with HDCP 1.4 and factory pre-loaded key.

Features & Specification

• Operating characteristic

- -40°C to 70°C Ambient Operation Temperature Range / ESD HBM 4.0 kV
- Support HDMI / DVI port of TV / Monitor
- Easy to install , Plug & Play, Power free
- Contents: Type-C Male to HDMI Female converter cable with 15 cm cable
- Dimension :43*23*12 (mm) +15cm Cable Weight : 25g~40g include cable