

# Type-C to HDMI Converter



## Features & Specification

### 1. General Description

The C2H-100 USB Type-C to HDMI converter combines a USB Type-C input interface and a digital High-Definition Multimedia Interface(HDMI) output.

Billboard controller and Display Port (DP) to HDMI v2.0 converter into a single chip which support the Display Port Alternate Mode on USB Type-C applications.

The C2H-100-P is a highly integrated single chip suitable for multiple market segments and display applications, such as dongle, docks station ,monitor, television(TV), projector, signage, stream box etc..

### 2. Features

General USB Type-C Specification 1.1 / VESA Display Port (DP) v1.4 compliant receiver

HDMI specification v2.0b compliant transmitter, data rate up to 3 Gbps per channel.

Support all USB Type-C Channel Configuration (CC)

Embedded EDID (C2H-100 will response EDID if terminal device doesn't have it)

Support both HDCP 1.4 & HDCP2.2 with on-chip keys to support HDCP repeater, Support

RGB 4:4:4 8/10bit bpc and YCbCr 4:4:4,YCbCr 4:2:2 8/10-bit bpc

Max audio sample rate of 192KHz x8 channels /LPCM and Compressed Audio encoding formats, Support full link training and no link training, Support High Dynamic Range (HDR) /

Support 3D timing, USB Type-C Display Port(DP) Alt Mode Input (receiver), USB Type-C

Specification 1.1 and backward compatible with Type-C Specification 1.0 VESA Display

Port v1.4 compliant. Support 2-lane HBR2(5.4-Gbps) input. USB Type-C Channel

Configuration (CC) function

Support Hot Plug Detect (HPD), HDMI Output Interface (transmitter) Max data rate up to

3Gbps per channel Support up to 3840x2160@30Hz or 4096x2160@24Hz, Audio stream

handling, Max audio sample rate of 192KHz x8 channels Compatible with DVI.

Power Free / Temperature Range: -40°C to +85°C,

With 15cm USB Type-C cable