

HDMI to USB Type-C Converter



H2C-100

Features

HDMI2.0 Receiver Compliant
Support 3D Video Data Stream
Support HDCP1.4
Support HDR
Support Resolution up to 4Kx2K@60Hz
Support 8/10/12-bit Deep color
Support DDC
Support Hot-Plug Detect
Support Status and Control Data Channel (SCDC)
Support Data Lane Swap and Polarity Swap
Build-in Pattern Generation DP1.1 Transmitter
Compliant to VESA DP1.1 Standard
Data Lane and Polarity Swapping
Power Free
DP1.2 Transmitter Compliant to VESA DP1.2 Standard Support Four Lanes with 1.62Gbps (RBR), 2.7Gbps (HBR) or 5.4Gbps (HBR2) Data Rate Support Resolution up to 4Kx2K@60Hz

General Description

The H2C-100 is HDMI2.0 to Type-C Alternate Mode switch with internal DP1.2 converter. For HDMI input, H2C-100-P features a HDMI2.0 receiver with 1 clock lane and 3 data lanes operating at maximum 6Gb/s per data lane and a maximum input bandwidth of 18Gb/s, allowing resolution up to 4Kx2K@60Hz for RGB format. The converter also integrates a DDC controller and supports both HDCP1.4 and HDCP2.2. For DP1.2 output, it consists of 4 data lanes, supporting. RBR (1.62Gbps), HBR (2.7Gbps) and HBR2 (5.4Gbps) link speeds. The build-in optional SSC function reduces EMI effect on EMI-concerned system application. In order to be adaptable to the latest USB Type-C ecosystem, H2C-100-P integrates a high performance bidirectional Super-Speed switch controlled by CC logic and PD management unit to relieve mobile system design complexity and BOM cost. The switch function is compliant with VESA DP Alternate Mode on USB Type-C Standard.

Applications:

Mobile systems, VR/AR
Cellular handsets, PAD/Tablets
Digital video cameras and Digital still cameras
Temperature Range: -40°C to +85°C