

LT6911UXB --- Product Brief

HDMI2.0 to Quad-Port MIPI DSI/CSI with Audio

Features

HDMI2.0 Receiver

Compliant with HDMI2.0b, HDMI1.4 and DVI1.0
Compliant with HDCP2.2 and HDCP1.4
Data rate up to 6Gbps
Adaptive receiver equalization
AC-couple capable
Support channel swap(arbitrarily) and polarity inversion(independent)
Support 4k@60Hz
Supported 3D formats: frame packing(progressive), side-by-side(half/full), top-and-bottom, line alternative
Supported video formats:
CSC/DSC disabled: 24/30/36-bit RGB, 16/20/24-bit YCbCr4:2:2, 8-bit YCbCr4:2:0
CSC disabled, DSC enabled: 24-bit RGB, 16/20/24-bit YCbCr4:2:2, 8-bit YCbCr4:2:0
CSC enabled, DSC disabled: 24-bit RGB/YCbCr4:4:4, 16/20/24-bit YCbCr4:2:2
CSC/DSC enabled: 24-bit RGB/YCbCr4:4:4, 16/20/24-bit YCbCr4:2:2
HDR support
Support TMDS descrambling for EMI/RFI reduction
Support SCDC
5V tolerance DDC/HPD I/Os
Integrated EDID shadow

Single/Dual/Quad-Port MIPI DSI/CSI Transmitter

Compliant with DCS1.1, D-PHY1.2 & DSI1.3 & CSI-2 1.3
Integrated DSC1.2 encoder
1/2/4 configurable ports
1 clock lane and 1/2/3/4 configurable data lanes per port
80Mbps~2Gbps per data lane

Programmable transmitter swing and pre-emphasis
Support lane swap(arbitrarily) and polarity inversion(independent)

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