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LT6911UXBProductBrief–Rev12 1

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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