

LT6911GX --- Product Brief

HDMI2.1 to Quad-port MIPI DSI/CSI with Audio

Features

z HDMI2.1 Receiver

- f* Compliant with the HDMI 2.1 specification
- f* Support FRL mode with 3, 6 or 8Gbps Data Rate
- f* Support HDCP 1.4/2.2/2.3
- f* Support HDR
- f* Support FEC
- f* Support SCDC
- f* Support 8k@30Hz, 8k@60Hz with DSC

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

- f* Compliant with D-PHY1.2 & DSI 1.3 & CSI-2 1.3 , C-PHY1.0 & DSI-2 1.0 & CSI-2 2.0
- f* 1/2/4 configurable port
- f* D-PHY: 1~ 4 Configurable Data Lanes per port
- f* C-PHY: 1~ 3 Configurable Data Lanes per port
- f* D-PHY: 2.5Gb/s per data lane
- f* C-PHY: 5.7Gb/s per data lane
- f* Data lane and polarity swapping
- f* Support video overlay
- f* Support RGB/YUV4:2:2/YUV4:4:4/YUV 4:2:0 8/10bit Video Format
- f* Video stream copy mode for each single/dual-port
- f* Side-by-side 3D support
- f* Support CSI D-option 8 Lane output
- f* Port swap

z Miscellaneous

- f* 3.3V/1.1V Supply Power
- f* VESA DSC v 1.2a (v 1.1 compatible)
- f* Zoom scaling up and down

- f* Support FRC
- f* Support Rotation(Max 1080P)
- f* CSC: RGB <-> YUV444 <-> YUV422<-> YUV420
- f* Support SPDIF and 8-channel IIS audio output
- f* Support 100KHz and 400KHz I2C slave
- f* Integrated Microprocessor
- f* Embedded EDID shadow.
- f* Temperature Range: -40°C ~ +85°C
- f* ESD 4kV HBM
- f* Embedded LPDDR3/4 DRAM
- f* Packaged in BGA169 8mm x 8mm

Description

The LT6911GX is a high performance HDMI2.1 to MIPI® DSI/CSI transmitter.

For MIPI output, LT6911GX features configurable single-port or dual-port or quad-port MIPI® DSI/CSI with 1 high-speed clock lane and 1~ 4 high-speed data lanes operating at maximum 2.5Gb/s/lane with D-PHY, which can support a total bandwidth of up to 40Gbps. Or support 5.7Gb/s/lane with C-PHY, which can support a total bandwidth of up to 68.4Gbps.

LT6911GX internally integrates an 8-bit OCM and SPI flash memory (stacked die) to run program. Online

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