LT6911GX --- Product Brief

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

Features

HDMI2.1 Receiver

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

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

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

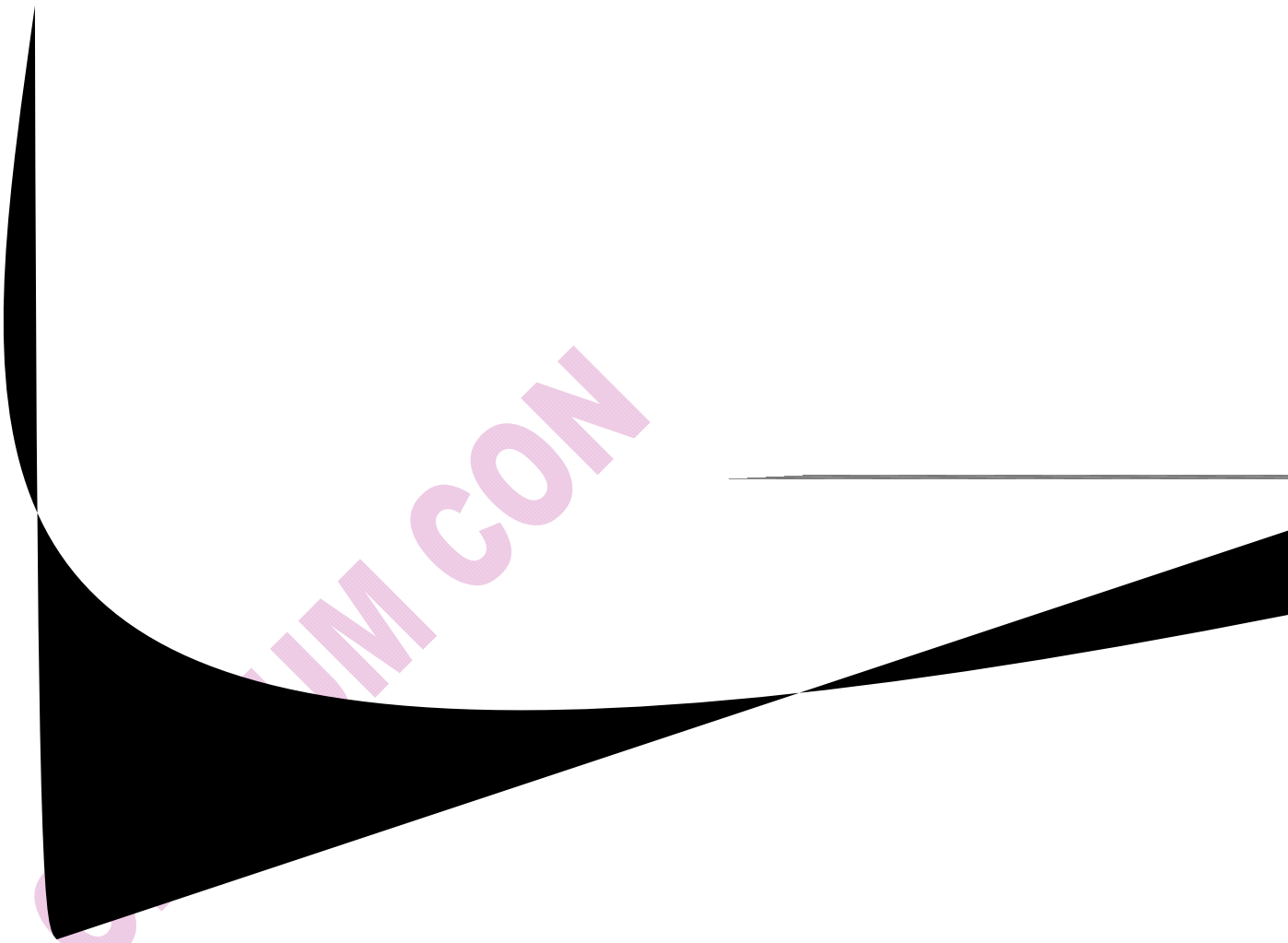
Miscellaneous

- 3.3V/1.1V Supply Power
- VESA DSC v1.2a (v1.1 compatible)
- Zoom scaling up and down
- Support FRC
- Support Rotation(Max 1080P)
- CSC: RGB <-> YUV444 <-> YUV422<-> YUV420
- Support SPDIF and 8-channel IIS audio output
- Support 100KHz and 400KHz I2C slave
- Integrated Microprocessor
- Embedded EDID shadow
- Temperature Range: -40°C ~ +85°C
- ESD 4kV HBM
- Embedded LPDDR3/4 DRAM

Description

The LT6911GX is a high performance HDMI2.1 to MIPI®DSI/CSI chip for VR/Display application.

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