

LT7911C --- Product Brief

DP1.2 to Dual-port MIPI DSI/CSI with Audio

Features

- **DP1.2 Receiver**
 - Compliant with DisplayPort Specification 1.2 for 1.62Gbps, 2.7Gbps, 5.4Gbps
 - Support DisplayPort 1, 2, 4 lanes
 - Support HDCP 1.3
 - Adaptive DisplayPort Receiver Equalization for PCB, cable and connector losses
 - Support AUX and IIC for firmware updating
- **Single/Dual-Port MIPI® DSI/CSI Transmitter**
 - Compliant with DCS1.02, D-PHY1.2& DSI1.02 & CSI-2 1.0
 - 1 Clock Lane, and 1~4 Configurable Data Lanes per port
 - 1/2 configurable port
 - 80Mb/s~1.5Gb/s per Data Lane
 - Data Lane and Polarity Swapping
 - Maximum 64Pixels overlap for each half
 - Burst Mode and Command Mode Supported
 - Support RGB666, Loosely RGB666, RGB888, RGB565, 16-bit YCbCr4:2:2, 20-bit YCbCr4:2:2, 24-bit YCbCr 4:2:2, 12-bit YCbCr4:2:0 Video Format
 - Video stream copy mode for each single/dual-port
 - Side-by-side 3D support
 - Port swap
- **Miscellaneous**
 - 3.3V/1.2V Supply Power

- Internal CSC support conversions between YCbCr 4:4:4 and RGB, and between YCbCr 4:2:2 and YCbCr 4:4:4
- Support SPDIF
- Support 100KHz and 400KHz I2C slave
- Power from phone or adapter mode selection
- Integrated Microprocessor
- Embedded EDID shadow.
- Temperature Range: -40°C ~ +85°C
- ESD 4kV HBM
- Package: QFN64 7.5x7.5

Description

The LT7911C is a high performance DP1.2 to MIPI®DSI/CSI chip for VR/Smart phone/Display application.

For DP1.2 input, LT7911C can be configured as 1,2,4 lane, also support lane swap function. Adaptive equalization makes it suitable for long cable application and the maximum bandwidth is up to 21.6Gbps.

For MIPI®DSI/CSI output, LT7911C features configurable single-port or dual-port or MIPI®DSI/CSI with 1 high-speed clock lane and 1~4 high-speed data lanes operating at maximum 1.5Gb/s/lane, which can support a total bandwidth of up to 12Gbps. LT7911C supports burst mode DSI video data transferring, also support flexible video data mapping path.

Applications

- Mobile system
- VR

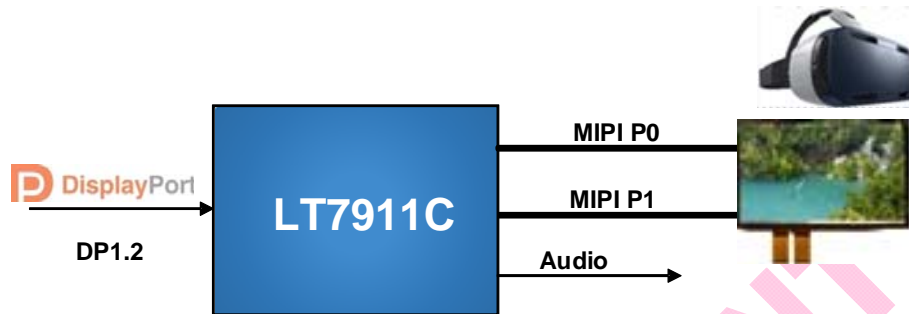


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT7911C	-40°C to+85°C	QFN64 (7.5*7.5)	Tray

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Technical support: support@lontium.com

Sales: sales@lontium.com