

LT7211 --- Product Brief

Type-C/DP1.2 to Quad-port LVDS with Audio

Features

● Type-C

- Compliant with VESA DisplayPort Alt Mode on USB Type-C Standard version 1.0
- Compliant with USB Power Delivery Rev. 2.0
- Compatible with USB Type-C V1.1
- Built-in CC controller for plug and orientation detection
- Dual-port CC for charger and normal communication.

● 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/Quad-Port LVDS Transmitter

- Compatible with VESA and JEIDA standard
- 1/2/4 Configurable Port
- 1 clock lane and 4 configurable data lanes per port
- Data Lane and Polarity Swapping
- Support Maximum Data Rate 1.2Gb/s/lane
- Output Color Depth supports 6-bit and 8-bit
- Video stream copy mode for each dual-port
- Side-by-side 3D support

● 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 and 8-channel IIS audio output
- 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

Description

The LT7211 is a high performance Type-C/DP1.2 to LVDS chip for VR/Display application.

For DP1.2 input, LT7211 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 LVDS output, LT7211 can be configured as single-port or dual-port or quad-port. For 2D video stream, the same video stream can be mapped to two separated panel, for 3D video format, left side data can be sent to one panel, and right side data can be sent to another panel.

Applications

- Docking Station
- Dongle
- VR

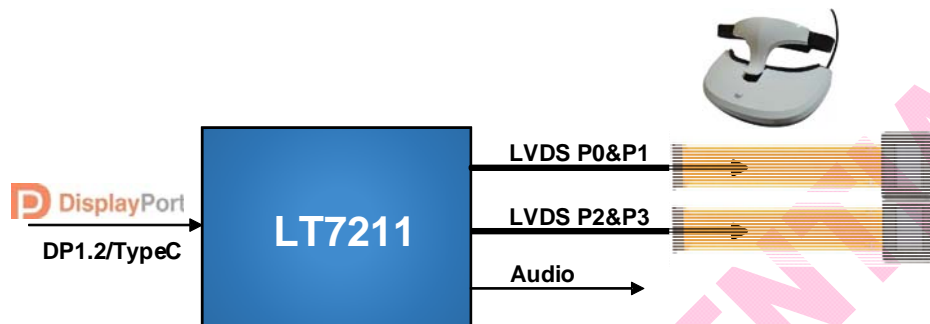


Figure1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT7211	-40°C to+85°C	QFN128 (14*14)	Tray

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