

LT6211 --- Product Brief

HD-DVI1.4 to Quad-port LVDS & MIPI DSI/CSI with Audio

1. Features

● HD-DVI1.4 Receiver

- Compliant with the HD-DVI 1.4 specification with TMDS data rates up to 3.4Gbps per channel
- Support HDCP 1.4
- Adaptive receiver Equalization for PCB, cable and connector losses

● 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 1.2Gbps/lane
- Output Color Depth supports 6-bit and 8-bit
- Video stream copy mode for each port
- Side-by-side 3D support

● Single/Dual-Port/ Quad-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
- 1/2/4 configurable port
- 80Mbps~1.5Gbps per data lane
- Maximum 64pixels overlap for each half
- Both non-burst and burst video mode supported
- Support RGB666, Loosely RGB666, RGB888, RGB565, 16-bit YCbCr4:2:2,20-bit YCbCr4:2:2,24-bit YCbCr 4:2:2 Video Format
- Video stream copy mode for each 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 I2C slave
- Integrated Microprocessor

2. General Description

The LT6211 is a high performance HD-DVI1.4 to LVDS chip for VR/Display application.

For LVDS output, LT6211 can be configured as single-port or dual-port or quad-port.

For MIPI®DSI/CSI output, LT6211 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 1.5Gbps/lane, which can support a total bandwidth of up to 24Gbps. LT6211 supports burst mode DSI video data transferring, also supports flexible video data mapping path.

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.

3. Applications

- Display
- VR
- Video conference system

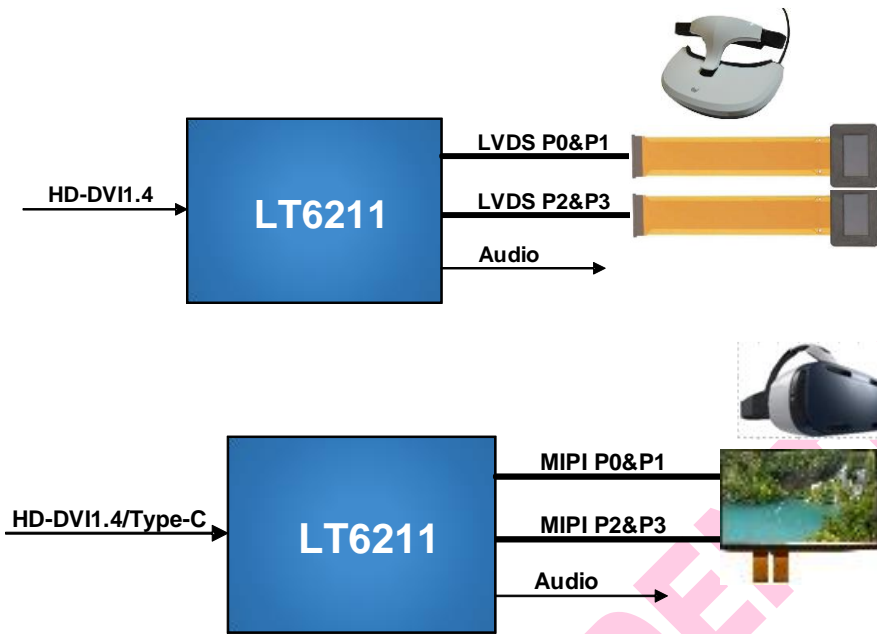


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method	MPQ
LT6211	-40°C to +85°C	QFN128 (14*14)	Tray	1190pcs

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