

# LT2911R-D --- Product Brief

## MIPI/TTL/2-Port LVDS to MIPI/TTL/2-Port LVDS Converter with Frame Rate Conversion and Rotation

### Features

#### Dual-Port LVDS Transmitter

- Compatible with VESA and JEIDA standard
- 1~2 Configurable Port
- Up to 1080P 60Hz
- Support DE Mode
- Two Port Simultaneous Display Supported
- Data Port , Data Lane and Polarity Swapping
- Programmable Pre-emphasis
- Support output SSC(30KHz± 5%)

#### MIPI Transmitter

- Compliant with DCS1.02, D-PHY1.2 ,DSI1.2 and CSI-2 1.00
- 1 Clock Lane and 1~4 Configurable Data Lanes
- Two Port Simultaneous Display Supported
- Up to 1.8Gb/s per Data Lane
- Resolution Up to 1080x2160 60Hz
- Data Lane and Polarity Swapping
- Both Non-Burst and Burst Video Mode Supported
- Support RGB666, Loosely RGB666, RGB888, RGB565, 16-bit YCbCr4:2:2, 24-bit YCbCr 4:2:2 Video Format

#### TTL Output

- Support 24-bit RGB and BT656/BT1120
- Both DDR and SDR Sampling supported
- Support both 1.8V and 3.3V Voltage Output
- Resolution up to 1080x2160 60Hz

#### Dual-Port LVDS Receiver

- Compatible with VESA and JEIDA standard
- 1~2 Configurable Port

- Up to 1080P 60Hz
- Data Port , Data Lane and Polarity Swapping
- Internal Rterm Calibration with Less than 5% Error
- Programmable Equalization
- Support input Dessc(30KHz± 5%)

#### TTL Input

- Support 24-bit RGB and BT656/BT1120
- Both DDR and SDR Sampling supported
- Support SYNC Mode and DE Mode
- Support both 1.8V and 3.3V Input Voltage
- Resolution up to 2160x1080 60Hz

#### Single-Port MIPI Receiver

- Compliant with DCS1.02, D-PHY1.2 ,DSI1.2 and CSI-2 1.00
- 1 Clock Lane and 1~4 Configurable Data Lanes
- Two Port Input switchable
- Up to 1.8Gb/s per Data Lane
- Resolution Up to 2160x1080 60Hz
- Data Lane and Polarity Swapping
- Both Non-Burst and Burst Video Mode Supported
- Support RGB666, Loosely RGB666, RGB888, RGB565, 16-bit YCbCr4:2:2, 24-bit YCbCr 4:2:2 Video Format

#### Miscellaneous

- 1.5V, 1.8V and 3.3V Power Supply
- 90 and 270 Degree Video Rotation
- X2 or /2 Frame Rate Conversion
- Alternative Input and Output configuration for LVDS/TTL/MIPI
- Support 100KHz and 400KHz I2C Slave
- External 25MHz 200ppm Crystal Reference Clock is Preferred
- Temperature Range: -40°C ~ +85°C
- Packaged in QFN76 9mm x 9mm

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