

LT8911EXB --- Product Brief

MIPI® DSI/CSI Bridge to eDP

1. Features

- Single-Port MIPI® DSI/CSI Receiver
- Compliant with D-PHY1.2, DSI1.3 and CSI1.3
- 1 clock lane and 1~4 configurable data lanes
- 80Mb/s~2.0Gb/s per data lane
- Data lane input de-skew
- Internal Rterm calibration with less than 5% error
- Programmable equalization
- Support Burst and Non-Burst Mode
- Support RGB565、RGB666、Loosely RGB666、RGB888、 RGB10bpc、RGB12bpc、YUV422 8bpc、YUV422 10bpc、 YUV422 12bpc、YUV420 12bpp input

• eDP1.4 Transmitter

- Compliant to VESA eDP1.4 standard
- Support1/2/4 data lanes with 1.62Gbps(RBR) or 2.7Gbps(HBR).
- Optional SSC 0.5% down-spreading output
- Configurable output swing for optimized EMI
- MCCS over AUX channel

Miscellaneous

- Single 1.8V supply power
- Temperature range: -40°C to +85°C
- Packaged in 6mm x 6mm QFN48

The Lontium LT8911EXB is MIPI®DSI/CSI to eDP converter with a single-port MIPI receiver which has 1 clock lane and 4 data lanes operating at maximum 2.0Gbps per data lane and a maximum input bandwidth of 8.0Gbps. The converter decodes the input MIPI RGB16/18/24/30/36bpp、YUV422 16/20/24bpp、YUV420 12bpp packets and converts the formatted video data stream to a single-link VESA eDP1.4 compliant output 1/2/4configurable with data lanes. supporting RBR(1.62Gbps) and HBR(2.7Gbps) link data rate. The build-in optional SSC function reduces EMI effect on EMI-concerned system application.

The LT8911EXB is fabricated in advanced CMOS process and implemented in a small outline 6mm x 6mm QFN48 at 0.5mm pitch package respectively. This package is RoHS compliant and specified to operate from -40°C to +85°C.

3. Applications

- Mobile systems
- Cellular handsets
- Digital video cameras
- Digital still cameras
- Personal media players
- Gaming

2. General Description

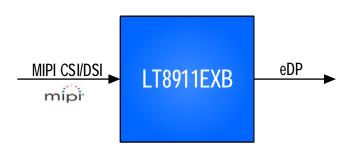


Figure 3.1 Application Diagram



4. Ordering Information

Table 4.1 Ordering Information

Part Number	Package	Operating Temperature Range	Packing Method	MPQ
LT8911EXB	QFN48 (6*6)	-40°C to +85°C	Tray	4900pcs





LT8911EXB ADVANCE INFORMATION – CONFIDENTIAL AND PROPRIETARY

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