

LT8911EX --- Product Brief

Dual-Port LVDS Bridge to eDP

1. Features

- **Single/Dual-Port LVDS Receiver**
 - Compatible with VESA and JEIDA standard
 - 1~2 configurable port
 - 1 clock lane and 4 data lanes per port
 - Maximum 1.2Gb/s per data lane
 - Support 6-bit or 8-bit input color depth
 - Support input De-SSC ($\pm 5\%$ @30KHz~80KHz)
- **eDP1.4 Transmitter**
 - Compliant to VESA eDP1.4 standard
 - Support 1/2/4 data lanes with 1.62Gbps(RBR) or 2.7Gbps(HBR).
 - Optional SSC 0.5% down-spreading output
 - Configurable output swing for optimized EMI
 - Support PWM Backlight control
 - MCCS over AUX channel
- **Miscellaneous**
 - Single 1.8V supply power
 - Temperature range: -40°C to $+85^{\circ}\text{C}$
 - Packaged in 9mm x 9mm QFN64

2. General Description

The Lontium LT8911EX is LVDS to eDP converter with a single-port or dual-port configurable LVDS receiver which has 1 clock lane and up to 8 data lanes operating at maximum 1.2Gbps per data lane and a maximum input bandwidth of 9.6Gbps. The converter de-serializes input LVDS data, decodes packets and converts the formatted video data stream to a single-link VESA eDP1.4 compliant output with 1/2/4 configurable 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 LT8911EX is fabricated in advanced CMOS process and implemented in a small outline 9mm x 9mm QFN64 at 0.5mm pitch package respectively. This package is RoHS compliant and specified to operate from -40°C to $+85^{\circ}\text{C}$.

3. Applications

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

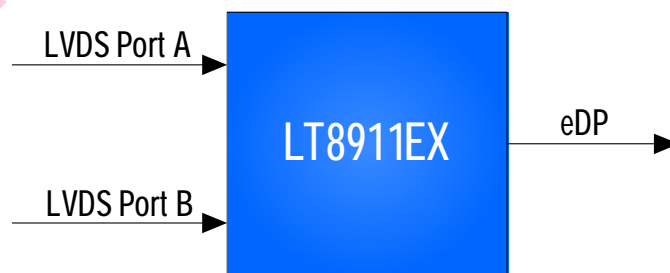


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Package	Operating Temperature Range	Packing Method	MPQ
LT8911EX	QFN64 (9*9)	-40°C to +85°C	Tray	2600pcs

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