

# LT8911EX --- Product Brief

## Dual-Port LVDS Bridge to eDP

### Features

- **Single/Dual-Port LVDS Receiver**
  - 1~2 configurable port
  - 1 clock lane and 4 data lanes per port
  - Data lane and polarity swapping
  - Maximum 1.2Gb/s per data lane
  - Support 6-bit or 8-bit input color depth
- **eDP1.4 Transmitter**
  - Compliant to VESA eDP1.4 standard
  - Support 1/2/4 data lanes with 1.62Gbps(RBR) or 2.7Gbps(HBR).
  - Data lane and polarity swapping
  - Optional SSC 0.5% down-spreading output
  - Configurable and power-on-calibrated 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°C
  - Packaged in 9mm x 9mm QFN64

### Description

The Lontium LT8911EX LVDS to eDP converter features a single-port or dual-port configurable LVDS receiver with 1 clock lane and up to 8 data lanes operating at maximum 1.2Gbps per data lane; 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 speeds. The build-in optional SSC function reduces EMI effect on EMI-concerned system application.

### Applications

- Mobile systems
- Digital still cameras
- Cellular Handsets
- Personal Media players
- Digital video cameras
- Gaming



Figure 1. Application Diagram

## Ordering Information

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

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