

# LT8911B --- Product Brief

## MIPI® DSI Bridge to eDP

### Features

- **Single-Port MIPI® DSI Receiver**
  - Input port configurable between port 1 and 2
  - Compliant with D-PHY1.1 and DSI1.02
  - 1 clock lane and 1~4 configurable data lanes
  - 80Mb/s~1.5Gb/s per data lane
  - Data lane and polarity swapping
  - Internal Rterm calibration w/i less than 5% error
  - 2-bit programmable equalization
  - Only Non-Burst Mode supported
  - Support 18/24/30/36-bit RGB format
- **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 LT8911B MIPI®DSI to eDP converter features a single-port MIPI receiver with 1 clock lane and 4 data lanes operating at maximum 1.5Gbps per data lane; a maximum input bandwidth of 6Gbps. The converter decodes the input MIPI® DSI 18/24/30/36-bit RGB 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

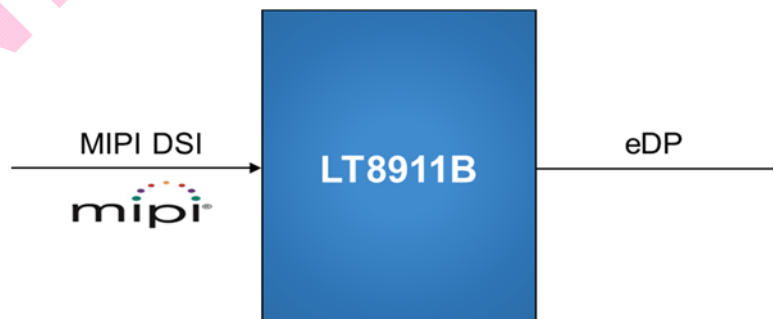


Figure 1. Application Diagram

## Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8911B	-40° C to +85° C	QFN48 (6*6)	Tray

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