

LT8911 --- Product Brief

Dual-Port LVDS Bridge to eDP

Features

- **Single/Dual-Port LVDS Receiver**
 - 1~2 configurable port
 - 1 clock lane and 1~5 data lanes per port
 - Data lane and polarity swapping
 - Maximum 1.5Gb/s per data lane
 - Input color depth up to 10-bit
 - Reduced output swing for low EMI
- **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 ~ +85°C

Packaged in 9mm x 9mm QFN64

Description

The Lontium LT8911 LVDS to eDP converter features a single-port or dual-port configurable LVDS receiver with 1 clock lane and up to 10 data lanes operating at maximum 1.5Gbps per data lane; a maximum input bandwidth of 12Gbps. The converter deserializes 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.

The Lontium LT8911B MIPI@DSI/LVDS to eDP converter features a single-port MIPI/LVDS 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 LVDS or 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.

Application

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

Block Diagram

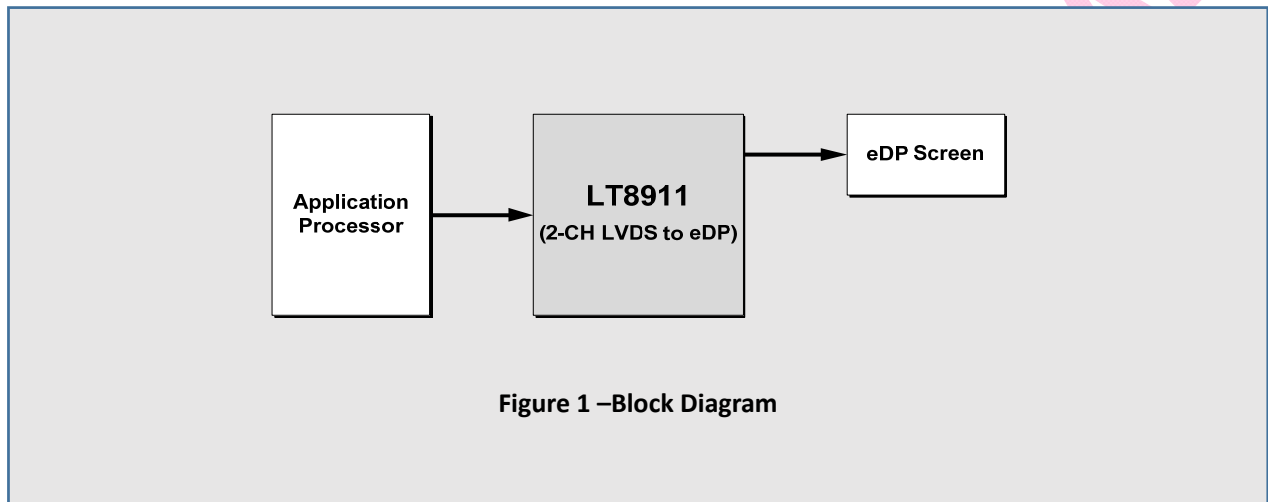


Figure 1 –Block Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8911	-40° C to +85° C	9mm x 9mm QFN64	Tape and Reel

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