

# 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 to +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.

### Applications

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

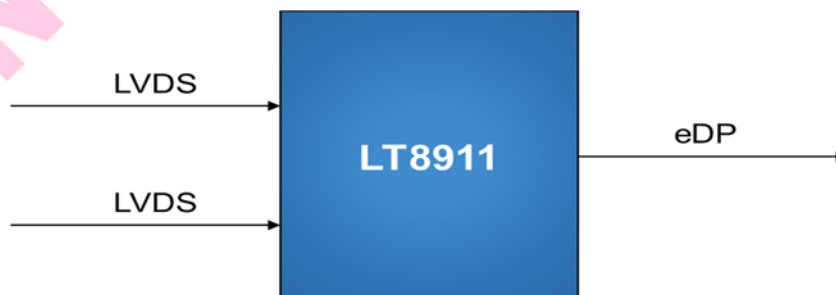


Figure 1. Application Diagram

## Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8911	-40° C to +85° C	QFN64 (9*9)	Tray

LONTIUM CONFIDENTIAL

**Copyright © 2016-2017 Lontium Semiconductor Corporation, All rights reserved.**

### **Lontium Semiconductor Proprietary & Confidential**

This document and the information it contains belong to Lontium Semiconductor. Any review, use, dissemination, distribution or copying of this document or its information outside the scope of a signed agreement with Lontium is strictly prohibited.

LONTIUM DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF NONINFRINGEMENT, MERCHANTABILITY, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. CUSTOMERS EXPRESSLY ASSUME THEIR OWN RISK IN RELYING ON THIS DOCUMENT.

LONTIUM PRODUCTS ARE NOT DESIGNED OR INTENDED FOR USE IN LIFE SUPPORT APPLIANCES, DEVICES OR SYSTEMS WHERE A MALFUNCTION OF A LONTIUM DEVICE COULD RESULT IN A PERSONAL INJURY OR LOSS OF LIFE.

Lontium assumes no responsibility for any errors in this document, and makes no commitment to update the information contained herein. Lontium reserves the right to change or discontinue this document and the products it describes at any time, without notice. Other than as set forth in a separate, signed, written agreement, Lontium grants the user of this document no right, title or interest in the document, the information it contains or the intellectual property in embodies.

### **Trademarks**

Lontium™ and ClearEdge™ is a registered trademark of Lontium Semiconductor. All Other brand names, product names, trademarks, and registered trademarks contained herein are the property of their respective owners.

**Visit our corporate web page at: [www.lontiumsemi.com](http://www.lontiumsemi.com)**

**Technical support: [support@lontium.com](mailto:support@lontium.com)**

**Sales: [sales@lontium.com](mailto:sales@lontium.com)**