

LT89101 --- Product Brief

MIPI DSI/CSI-2 and LVDS Repeater

1. Features

- Support 3-bit maximum 10dB Input Equalization
- Signal Re-driving without Data De-packetize
- Input Data Lane and Polarity Swapping
- 80Mb/s~2.5Gb/s per Data Lane for both Input and Output
- 1.8V Single Supply Power
- Support 100KHz / 400KHz I2C slave
- External 48MHz \pm 200ppm Crystal Reference Clock
- Temperature Range: -40°C to +85°C
- Packaged in QFN64 7.5mm x 7.5mm

2. General Description

The Lontium LT89101 is a high performance MIPI DSI/CSI-2 and LVDS repeater for mobile display or

camera signal reshaping for car system application. MIPI DSI/CSI-2 repeater supports both re-driving and re-timing mode operation.

The LT89101 is fabricated in advanced CMOS process and implemented in a small outline 7.5mm x 7.5mm QFN64 package. This package is RoHS compliant and specified to operate from -40°C to +85°C.

3. Applications

- Mobile systems
- Cellular handsets
- Digital video cameras
- Digital still cameras
- Tablet PC, Notebook PC
- Car Display and Camera System

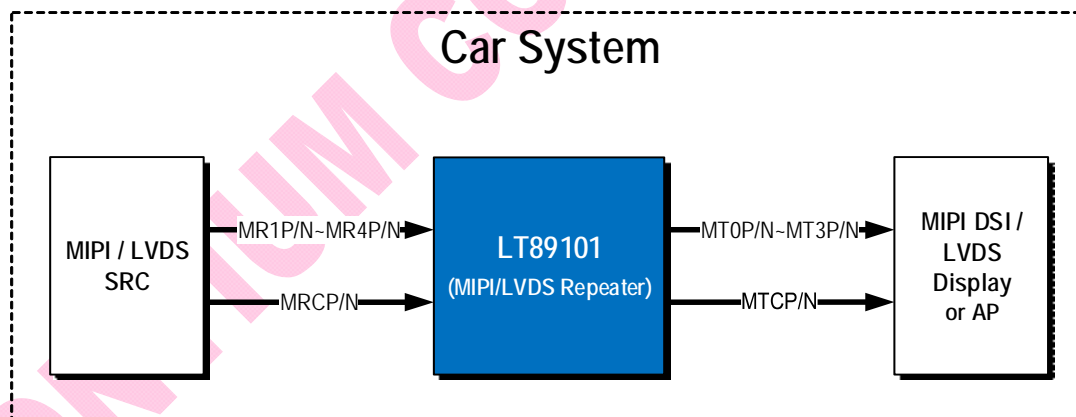


Figure 3.1 Typical Application and System Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT89101	-40° C to +85° C	QFN64 (7.5*7.5)	Tray

Copyright © 2016-2020 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™ 龙迅™ 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

Technical support: support@lontium.com

Sales: sales@lontium.com