

LT933MT --- Product Brief

Automotive Serializer Series

1. Features

MIPI CSI Receiver

- Compliant with D-PHY1.2 & CSI-2 1.3
- 1 clock lane and 1/2/4 configurable data lanes; 2.5Gbps per data lane

TTL Receiver

- 15-lane SDR/DDR Sampling Support
- Max Pixel Clock 74.25MHz

Automotive Display Port Transmitter

- Bidirectional transmission with maximum 8.1Gbps forward data channel and max 29.7Mbps back control channel
- Typical resolution 4K 24bit 30fps
- Transmit video, I2C data on the forward data channel with scrambling, DC balance and FEC
- Receive reference clock, I2C data and frame sync from back control channel with DC balance and ECC
- maximum 5m transmission distance for 8.1Gbps, and maximum 15m transmission distance for lower speed, depending on the attenuation of cable

Miscellaneous

- DeSSC for receiver and SSC for transmitter
- Camera Synchronization
- Temperature and Voltage sensing
- Integrated 100KHz,400KHz, 1MHz I2C master
- 1.8V power for core and 1.8/3.3V power for IO
- POC/POE
- AEC-Q100 Grade 2

2. General Description

The LT933MT serializer is a part of Lontium's long distance video transmission family for Advanced Driver Assistance Systems(ADAS), designed to provide a solution for MIPI and TTL sensor data transmission with a maximum 15m coax(POC) or STP cable. The chip delivers a 8.1Gbps forward data channel and 29.7 Mbps back control channel and supports power over the cable.

3. Applications

- Advanced Driver Assistance Systems(ADAS)
 - Surround View System
 - Front and Rear Image Sensor
- MIPI-CSI/TTL Extender

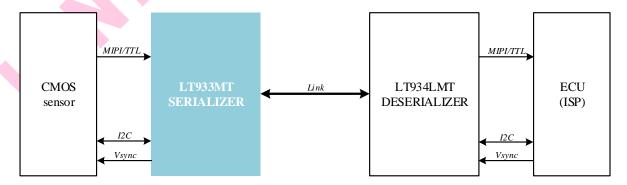


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Product Name	Part Number	Product Status	Package	Bonding Wire	Grade	Operating Temperature Range	Stack Die Option	Packing Method
LT933MT	LT933MT_U1Q12AAN	Preview	QFN32 (5*5)Saw	Au	Α	-40°C to +105°C	N	Tray

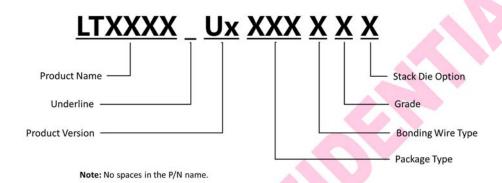


Figure 4.1 Part Number Naming Rules



LT933MT U1 ADVANCE INFORMATION – CONFIDENTIAL AND PROPRIETARY

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