

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; 1.5Gbps per data lane

• TTL Receiver

- 15-lane SDR/DDR Sampling Support
- Max Pixel Clock 37.125MHz

Automotive Display Port Transmitter

- Bidirectional transmission with maximum 4.32Gbps forward data channel and max 3.7Mbps back control channel
- 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 15m transmission distance

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
- Compatible with LT934LMT, LT934M

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 4.32Gbps forward data channel and 3.7 Mbps back control channel and supports power over the cable. Together with a companion deserializer, LT933MT is able to synchronize the camera senor with the whole system.

3. Applications

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

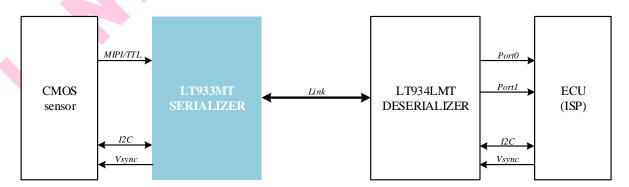


Figure 3.1 Application Diagram



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_U1Q12ABN	Preview	QFN32	Au	Automotive	-40°C to +105°C	N	Tray
			(5*5)Saw		Grade 2		14	

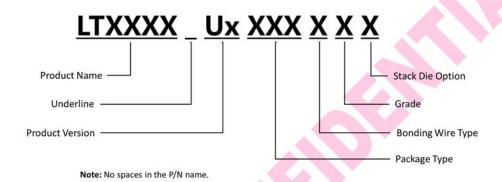


Figure 4.1 Part Number Naming Rules



LT933MT U1 ADVANCE INFORMATION – CONFIDENTIAL AND PROPRIETARY

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