

LT934LMT --- Product Brief

Automotive Deserializer Series

1. Features

- **LVDS Transmitter**
 - Compliant with VESA, JEIDA
 - 1/2 configurable port with 1 clock lane and 4 data lanes per each port
 - Configurable sync code detected
 - data rate up to 1.2Gbps
- **MIPI DSI/CSI Transmitter**
 - Compliant with D-PHY1.2 & DSI 1.3 & CSI-2 1.3
 - 1/2 configurable port
 - 1 clock lane and 1/2/4 configurable data lanes for each port; 2Gbps per data lane
- **TTL Transmitter**
 - 15-lane SDR/DDR Sampling Support
 - Max Pixel Clock 37.125MHz
- **Automotive Display Port Receiver**
 - 1/2 configurable link
 - Bidirectional transmission with maximum 5.4Gbps forward data channel and maximum 3.7Mbps back control channel on link0, and link1 is only forward data channel
 - Receive video, I2C data and audio from the forward data channel with scrambling, DC balance and FEC
 - Carry reference clock, I2C data, interrupt and frame sync on back control channel with DC balance and ECC
 - Maximum 10m transmission distance for 5.4Gbps and 15m for 4.32Gbps

- **Miscellaneous**

- SSC for transmitter
- Interrupt I/O
- Camera Synchronization
- Temperature and Voltage sensing
- Integrated 100KHz,400KHz, 1MHz I2C master and slave
- 2-channel I2S master
- External 27MHz oscillator
- 1.8V , 1.2V power for core and 1.8/3.3V power for IO
- POC/POE
- AEC-Q100 Grade 2
- Compatible with LT933MT, LT947LMT

2. General Description

The LT934LMT deserializer is a part of Lontium's long distance video transmission family for Advanced Driver Assistance Systems(ADAS), designed to provide a solution for LVDS, MIPI and TTL video transmission with a coax(POC) or STP cable. The chip delivers a maximum 5.4Gbps forward data channel and back control channel and supports power over each cable.

3. Applications

- Advanced Driver Assistance Systems(ADAS)
 - Front and Rear Image Sensor
 - Display System
- LVDS/MIPI/TTL Extender

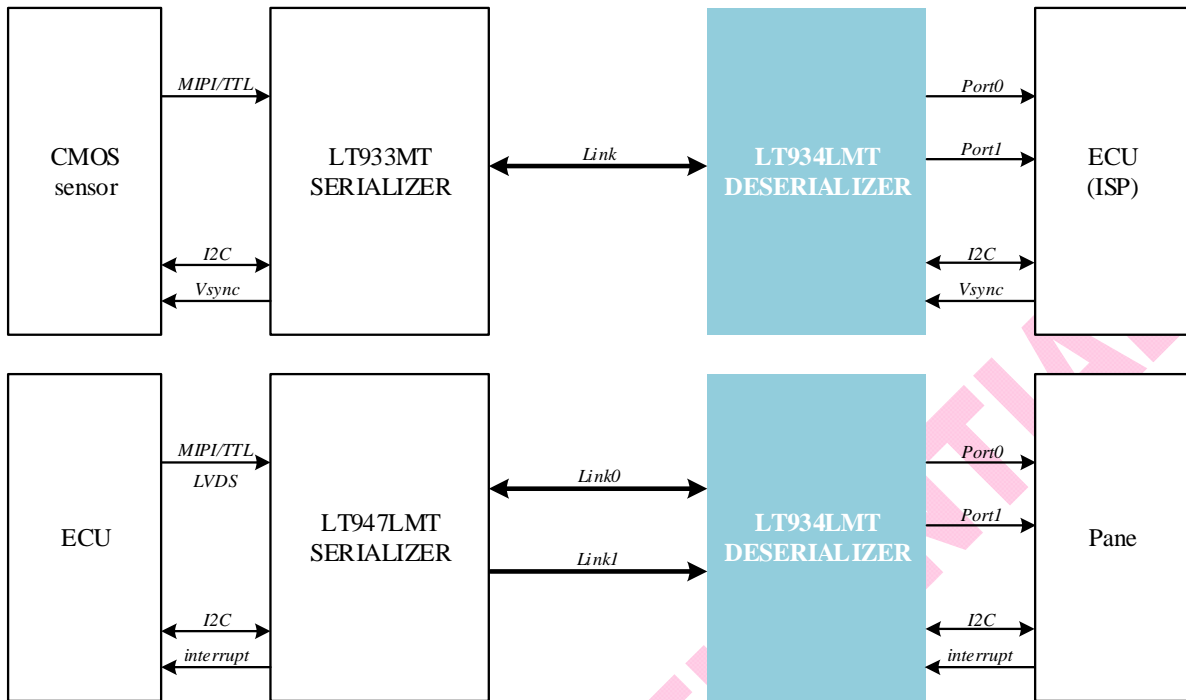
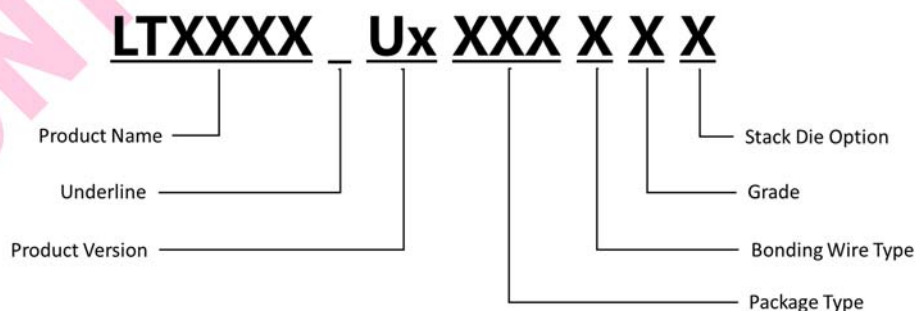


Figure 3.1 Application Diagrams

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
LT934LMT	LT934LMT_U1Q10ABN	Preview	QFN48 (6*6)Saw	Au	Automotive Grade 2	-40°C to +105°C	N	Tray



Note: No spaces in the P/N name.

Figure 4.1 Part Number Naming Rules

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