



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

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