

# LT934M --- Product Brief

## Automotive Deserializer Series

### 1. Features

- **MIPI CSI Transmitter**
  - Compliant with D-PHY1.2 & DSI 1.3 & CSI-2 1.3
  - 1/2 configurable port
  - 16 virtual channel
  - 1 clock lane and 1/2/4 configurable data lanes; 2.5Gbps per data lane
- **Automotive Display Port Receiver**
  - 1/2/3/4 configurable port and single link for each port
  - Bidirectional transmission with maximum 8.1Gbps forward data channel and max 29.7Mbps back control channel on each single link
  - Receive video, I2C data from the forward data channel with scrambling, DC balance and FEC
  - Transmit reference clock, I2C data, interrupt and frame sync on 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
  - Typical resolution 1080P 24bit 60fps
- **Miscellaneous**
  - SSC for transmitter
  - Interrupt output

- Camera Synchronization
- Temperature and Voltage sensing
- Integrated 100KHz,400KHz, 1MHz I2C master and slave
- External 27MHz oscillator
- 1.8V, 1.2V power for core and 1.8/3.3V power for IO
- POC/POE
- AEC-Q100 Grade 2

### 2. General Description

The LT934M deserializer is a part of Lontium's long distance video transmission family for Advanced Driver Assistance Systems(ADAS), designed to provide a solution for multi MIPI, TTL sensor transmission. The chip delivers maximum four 8.1Gbps forward data channels and back control channels and supports power over the cables. Together with a compatible serializer, each video can be transmitted with a maximum 15m coaxial(POC) or STP cable.

### 3. Applications

- Advanced Driver Assistance Systems(ADAS)
  - Surround View System
  - Front and Rear Image Sensor

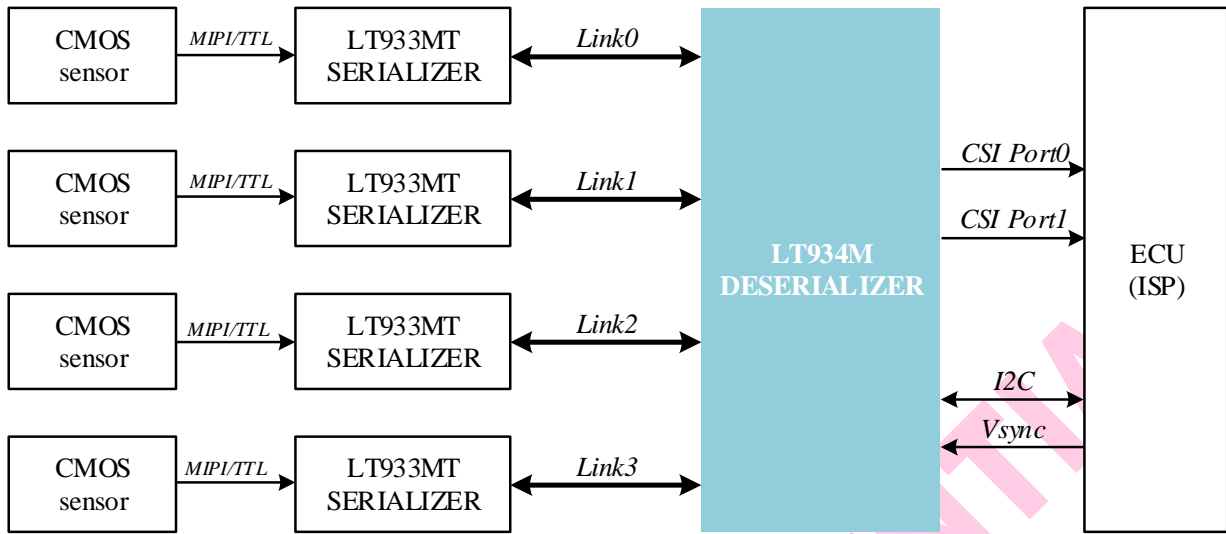


Figure 3.1 Application Diagram

## 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
LT934M	LT934M_U1Q07AAN	Preview	QFN64 (7.5*7.5)Saw	Au	A	-40°C to +105°C	N	Tray

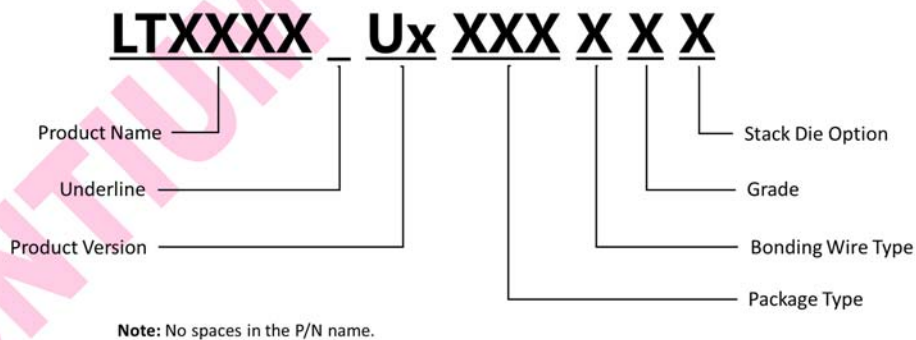


Figure 4.1 Part Number Naming Rules

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