

LT934M --- Product Brief

Automotive Deserializer

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

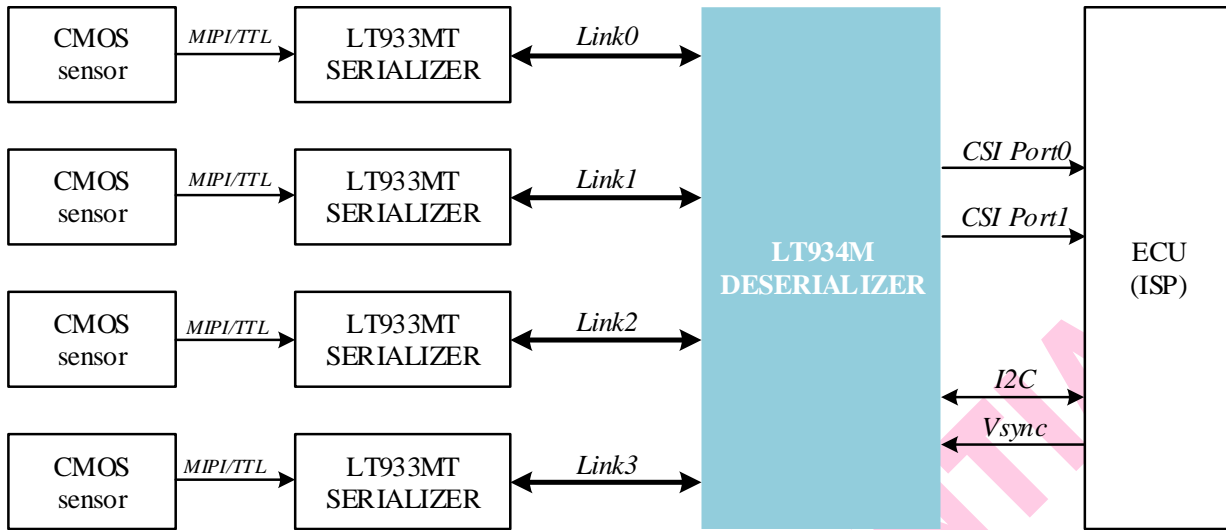


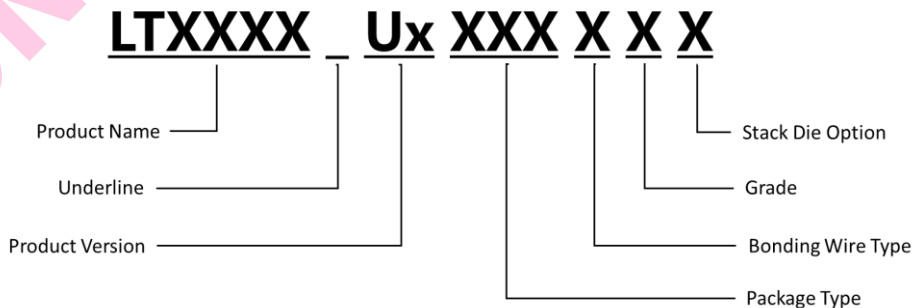
Figure 3.1 Application Diagram

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	MPQ
LT934M04	LT934M04_U2Q07CAN	Preview	QFN64 (7.5*7.5)Saw	Cu	A	-40°C to +105°C	N	Tray	TBD
LT934M06	LT934M06_U2Q07CAN	Preview	QFN64 (7.5*7.5)Saw	Cu	A	-40°C to +105°C	N	Tray	TBD
LT934M08	LT934M08_U2Q07CAN	Preview	QFN64 (7.5*7.5)Saw	Cu	A	-40°C to +105°C	N	Tray	TBD
LT934M04	LT934M04_U2Q07CEN	Preview	QFN64 (7.5*7.5)Saw	Cu	E	-40°C to +85°C	N	Tray	TBD
LT934M06	LT934M06_U2Q07CEN	Preview	QFN64 (7.5*7.5)Saw	Cu	E	-40°C to +85°C	N	Tray	TBD
LT934M08	LT934M08_U2Q07CEN	Preview	QFN64 (7.5*7.5)Saw	Cu	E	-40°C to +85°C	N	Tray	TBD

Note: AEC-Q100 is just for Grade A.



Note: No spaces in the P/N name.

Figure 4.1 Part Number Naming Rules

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