



## DS90UB954TRGZRQ1 Texas Instruments

XT-ShenZhen is the professional leader of China DS90UB954TRGZRQ1 Texas Instruments with high quality and reasonable price. DS90UB954TRGZRQ1 A deserializer chip designed and developed by Texas Instruments for automobiles. It is widely used in automotive radar and cameras. It is one of the car-grade chips that are currently in short supply on the market. You can buy XT-ShenZhen® products with confidence. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply you in time!

DS90UB954TRGZRQ1 Texas Instruments is a versatile dual deserializer hub that accepts serial sensor data from one or two independent sources via the FPD-LinkIII interface. When used with the DS90UB953-Q1 serializer, DS90UB954TRGZRQ1 receives data from the imager and supports 2MP/60fps and 4MP/30fps cameras as well as satellite radar and other sensors such as ToF and LiDAR. The data received by the device is aggregated into MIPICSI-2 compliant outputs that are interconnected to downstream processors. Receive and aggregate data from one or two sensors, including full HD 1080p2MP60/fps imager sensors. When the CSI-2 interface is configured for 2-lane operation, an identical MIPICSI-2 clock lane is provided to provide duplicate outputs. Copy mode creates two copies of the aggregated video stream for data logging and parallel processing. The DS90UB954TRGZRQ1 receives data over a 50Ω single-ended coaxial cable or a 100Ω differential STP cable. The deserializer hub is ideal for power over coax applications, and the receive equalizer automatically adapts to compensate for cable loss characteristics (no additional programming required), including cable aging over time. Each FPD-LinkIII interface includes a separate low-latency bidirectional control channel that continuously transmits I2C, GPIO, and other control information. GPIO signals for sensor synchronization and diagnostic features also use a low-latency bidirectional control channel.

### Product Features

AEC-Q100 qualified for automotive applications

- Device temperature grade 2: -40 °C to +105 °C ambient operating temperature range
- Dual deserializer hub can aggregate one or two active sensors via FPD-LinkIII interface
- Power over Coax (PoC) compatible transceiver
- Compliant with MIPIDPHY version 1.2/CSI-2 version 1.3 standards
- CSI-2 output port
- Supports 1, 2, 3, 4 data channels
- CSI-2 data rate is scalable: each data channel supports 400Mbps/800Mbps/1.5Gbps/1.6Gbps
- Programmable data types
- Four virtual channels
- ECC and CRC generation
- Ultra-low data and control path latency
- Supports single-ended coaxial or shielded twisted pair (STP) cables
- Adaptive receive equalization
- I2C with Fast Mode Enhanced (up to 1Mbps)
- Flexible GPIOs for camera synchronization and diagnostics

**Shenzhen Zhen Rong Era Supply Chain Management Co., Ltd.**

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- Compatible with DS90UB935-Q1, DS90UB953-Q1, DS90UB933-Q1 and DS90UB913A-Q1 serializers
- Line fault detection and advanced diagnostics
- Compliant with ISO 10605 and IEC 61000-4-2ESD standards

**Product parameters**

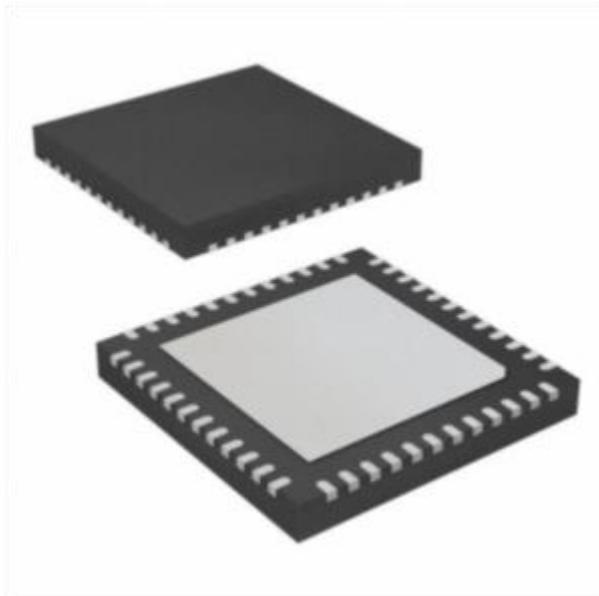
technical parameter	Working temperature (Max)	105 °C
	Working temperature (Min)	-40 °C
	voltage	1.71V-1.89V
	Installation method	Surface Mount
	Number of pins	48
	package	VQFN-48
	Packing	Tape&Reel (TR)
	RoHS standard	RoHS Compliant

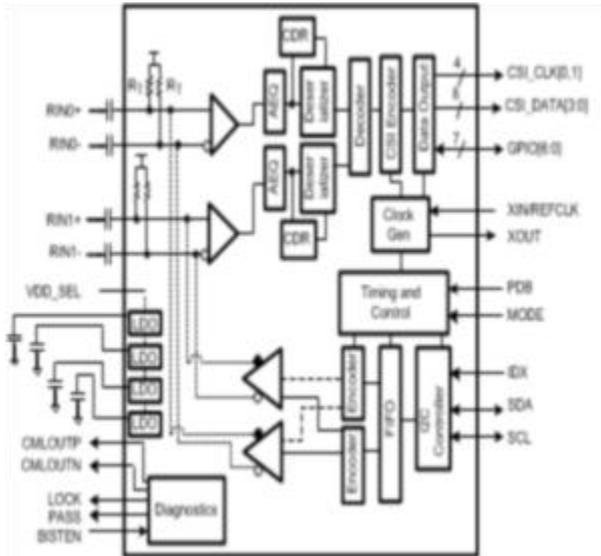
**Product Image****Shenzhen Zhen Rong Era Supply Chain Management Co., Ltd.**

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## FAQ

**Q: Where is your company?**

A: Our company is registered in Shenzhen, China.

**Q: How long do you need to give me a quote?**

A: On weekdays, after receiving your information, a quote will be sent to you within the same day.

**Q: How do you pack your goods?**

A: Each of our shipments is vacuum vacuumed and packed. Make sure there is no damage during shipping

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