LVDS Deserializer 1870Mbps 0.52V Automotive 48-Pin VQFN EP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	VQFN48
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active
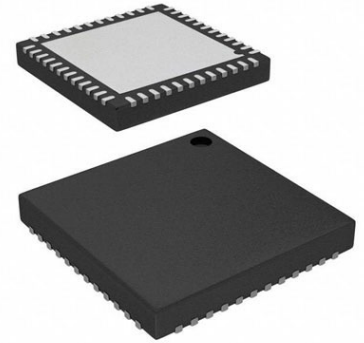
Images are for reference only

Inquiry

General Description

The DS90UB934-Q1 FPD-Link III deserializer, in conjunction with the DS90UB913A/933-Q1 serializers, supports the video transport needs with an ultra-high-speed forward channel and an embedded bidirectional control channel. The DS90UB934-Q1 converts the FPD-Link III stream into a parallel CMOS output interface designed to support automotive image sensors up to 12 bits at 100 MHz with resolutions including 1MP/60fps and 2MP/30fps.

The DS90UB933/934 chipset is fully AEC-Q100 qualified and designed to receive data across either 50- single-ended coaxial or 100- shielded-twisted pair (STP) cable assemblies. The DS90UB934-Q1 uses an advanced adaptive equalizer to allow support of various cable lengths and types with no additional programming required.

The DS90UB934-Q1 is improved over prior generations of ADAS FPD-Link III deserializer devices (such as DS90UB914A-Q1) offering higher bandwidth support with additional enhancements.

Key Features

Qualified for automotive applications

AEC-Q100 qualified for automotive applications with the following results:
Device temperature grade 2: –40°C to +105°C ambient operating temperature

Device HBM ESD classification level ±2 kV

Device CDM ESD classification level C4

Operates up to 100 MHz in 12-bit mode to support 1 MP/60 fps and 2 MP/30 fps imagers as well as satellite RADAR

Configurable 12-bit parallel CMOS compatible with DS90UB913A/933 serializers

Adaptive equalization compensates for cable aging and degradation effects

Ultra-low latency bi-directional control data channel with data protection

Cable link detect diagnostics

Supports Power-over-Coax operation (PoC)

ISO 10605 and IEC 61000-4-2 ESD compliant

Low radiated and conductive emissions

BIST (Built-In Self-Test)

Recommended For You

SN65LVDS3486D	**SN65LVDS3487D**	**DS90C032TM**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
SOP-16	SOP16	SOP16
DS90C031BTM	**SN65LVDS31PW**	**SN65LVDS33D**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
SOP16	TSSOP-16	SOP-16
SN65LVDS32D	**SN65LVDS31D**	**SN65LVDS32PW**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
SOP-16	SOP	TSSOP16
DS90UB954TRGZTQ1	**DS90UB954TRGZRQ1**	**SN65DSI83TPAPRQ1**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
QFN48	VQFN48	HTQFP-64

DS90UB947TRGCTQ1

Texas Instruments, Inc

VQFN-64

DS90LV011AQMF/NOPB

Texas Instruments, Inc

SOT23-5

DS90UB924TRHSTQ1

Texas Instruments, Inc

WQFN-48