
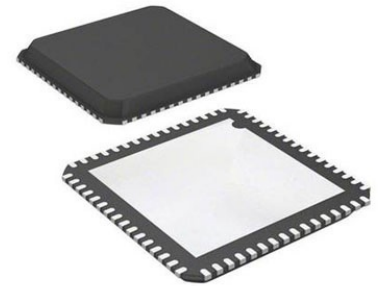


LVDS Serializer 3360Mbps Automotive 64-Pin VQFN EP T/R

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	VQFN64
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The DS90UB929-Q1 is an HDMI to FPD-Link III bridge device which, in conjunction with the FPD-Link III DS90UB926Q-Q1/DS90UB928Q-Q1 deserializers, supplies 1-lane high-speed serial stream over cost-effective 50-Ω single-ended coaxial or 100-Ω differential shielded twisted-pair (STP) cable. It serializes an HDMI v1.4b input supporting video resolutions up to WXGA and 720p with 24-bit color depth. The DS90UB929-Q1 is also compatible with the DS90UB940-Q1/DS90UB948-Q1 deserializers.

The FPD-Link III interface supports video and audio data transmission and full duplex control, including I2C communication, over the same differential link. The consolidation of video data and control over one differential pair can reduce the interconnect size and weight and can simplify system design. EMI is minimized by the use of low-voltage differential signaling, data scrambling, and randomization.

The DS90UB929-Q1 supports multi-channel audio received through HDMI or an external I2S interface. The device also supplies an optional auxiliary audio interface.

Key Features

AEC-Q100 qualified for automotive applications
 Device temperature grade 2: -40°C to +105°C, T_A

Supports TMDS clock up to 96 MHz for WXGA and 720p60 or 1080i60 resolutions with 24-bit color depth

FPD-Link III outputs

High-definition multimedia (HDMI) v1.4b inputs
 HDMI-mode DisplayPort (DP++) inputs

HDMI audio extraction for up to 8 channels

Supports up to 15 meters of cable with automatic temperature and aging compensation

Monitors spread-spectrum input clock to reduce EMI

I2C (master/slave) with 1-Mbps fast-mode plus

Compatible with DS90UB926Q-Q1 and DS90UB928Q-Q1 FPD-Link III deserializers

Recommended For You

SN65LVDS3486D

Texas Instruments, Inc
SOP-16

SN65LVDS3487D

Texas Instruments, Inc
SOP16

DS90C032TM

Texas Instruments, Inc
SOP16

DS90C031BTM

Texas Instruments, Inc
SOP16

SN65LVDS31PW

Texas Instruments, Inc
TSSOP-16

SN65LVDS33D

Texas Instruments, Inc
SOP-16

SN65LVDS32D

Texas Instruments, Inc
SOP-16

SN65LVDS31D

Texas Instruments, Inc
SOP

SN65LVDS32PW

Texas Instruments, Inc
TSSOP16

DS90UB954TRGZTQ1

Texas Instruments, Inc
QFN48

DS90UB954TRGZRQ1

Texas Instruments, Inc
VQFN48

SN65DSI83TPAPRQ1

Texas Instruments, Inc
HTQFP-64

DS90UB947TRGCTQ1

Texas Instruments, Inc
VQFN-64

DS90LV011AQM/NOPB

Texas Instruments, Inc
SOT23-5

DS90UB924TRHSTQ1

Texas Instruments, Inc
WQFN-48