LDO Regulator Pos 2.5V 0.3A 5-Pin SOT-23 T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOT23-5
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active
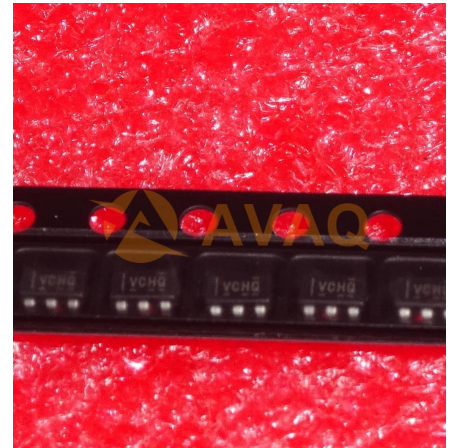
Images are for reference only

Inquiry

General Description

The DS90UB947-Q1 is an OpenLDI to FPD-Link III bridge device which, in conjunction with the FPD-Link III DS90UB940-Q1/DS90UB948-Q1 deserializers, provides 1-lane or 2-lane high-speed serial streams over cost-effective 50-Ω single-ended coaxial or 100-Ω differential shielded twisted-pair (STP) cables. It serializes an OpenLDI input supporting video resolutions up to WUXGA and 1080p60 with 24-bit color depth.

The FPD-Link III interface supports video and audio data transmission and full duplex control, including I2C and SPI communication, over the same differential link. Consolidation of video data and control over two differential pairs reduces the interconnect size and weight and simplifies system design. EMI is minimized by the use of low voltage differential signaling, data scrambling, and randomization. In backward compatible mode, the device supports up to WXGA and 720p resolutions with 24-bit color depth over a single differential link.

The DS90UB947-Q1 supports multi-channel audio received through an external I2S interface. Audio data received by the device is encrypted and sent over the FPD-Link III interface where it is regenerated by the deserializer.

Key Features

AEC-Q100 Qualified for Automotive Applications

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Supports Clock Frequency up to 170 MHz for WUXGA (1920x1200) and 1080p60 Resolutions With 24-Bit Color Depth

Single and Dual FPD-Link III Outputs

Single Link: Up to 96-MHz Pixel Clock

Dual Link: Up to 170-MHz Pixel Clock

Single and Dual OpenLDI (LVDS) Receiver
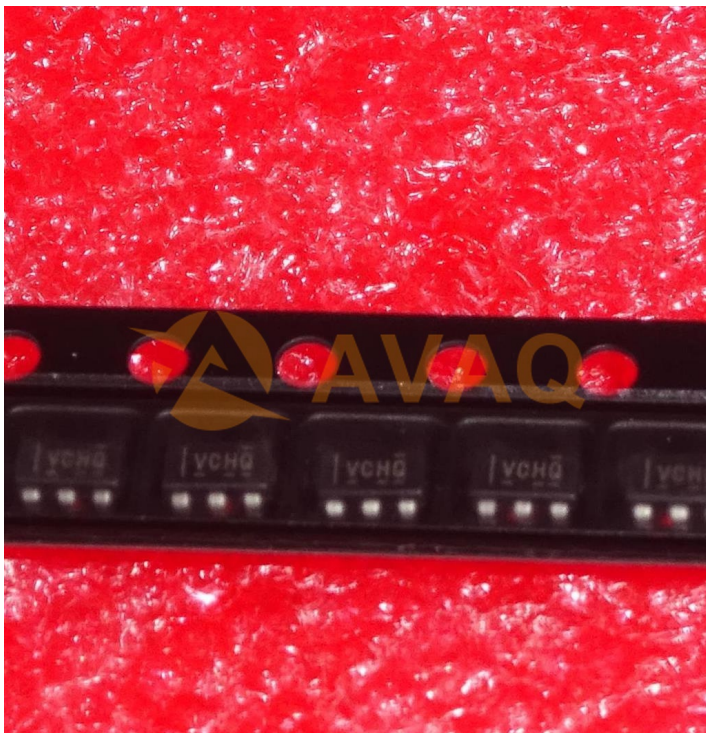
Configurable 18-Bit RGB or 24-Bit RGB

High-Speed Back Channel Supporting GPIO up to 2 Mbps

Supports up to 15 Meters of Cable with Automatic Temperature and Aging Compensation

I2C (Master/Slave) With 1-Mbps Fast-Mode Plus

SPI Pass-Through Interface

Backward Compatible With DS90UB926Q-Q1 and DS90UB928Q-Q1 FPD-Link III Deserializers

Recommended For You

TL2843P	**TL431CP**	**TL7705ACDR**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
DIP8	DIP8	SOP8

TL3843P

Texas Instruments, Inc

DIP8

TL497ACN

Texas Instruments, Inc

DIP14

TL3845P

Texas Instruments, Inc

DIP8

TL494CD

Texas Instruments, Inc

SOP-16

TL431IDBVR

Texas Instruments, Inc

SOT23-5

TL494CN

Texas Instruments, Inc

DIP

TL431CDBVR

Texas Instruments, Inc

SOT23-5

TL7705ACP

Texas Instruments, Inc

DIP8

TL3842P

Texas Instruments, Inc

DIP8

TLV73333PDBVR

Texas Instruments, Inc

SOT23-5

TL431BIDBZT

Texas Instruments, Inc

SOT23-3

TL431CPSR

Texas Instruments, Inc

SOP-8