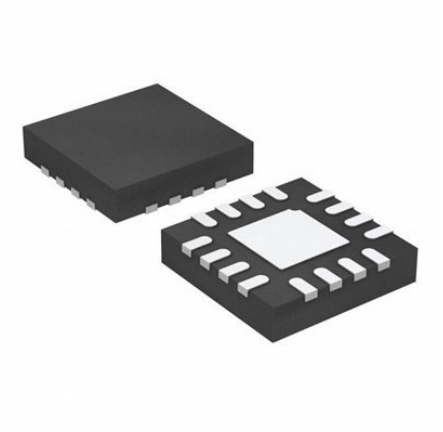
LMH0303SQ/NOPB

HD/SD SDI Cable Driver 16-Pin WQFN EP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	WQFN16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The LMH0303 device is designed for use in ST 424, ST 292, ST 344, and ST 259 serial digital video applications. The LMH0303 drives 75-Ω transmission lines (Belden 1694A, Belden 8281, or equivalent) at data rates up to 2.97 Gbps.

The LMH0303 includes intelligent sensing capabilities to improve system diagnostics. The cable detect feature senses near-end termination to determine if a cable is correctly attached to the output BNC. Input loss of signal (LOS) detects the presence of a valid signal at the input of the cable driver. These sensing features may be used to alert the user of a system fault and activate a deep power-save mode, reducing the power consumption of the cable driver to 4 mW. These features are accessible through an SMBus interface.

The LMH0303 provides two selectable slew rates for ST 259 and ST 424 or 292. The output amplitude is adjustable ±10% in 5-mV steps through the SMBus.

The LMH0303 is powered from a single 3.3-V supply. Power consumption is typically 130 mW in SD mode and 155 mW in HD mode. The LMH0303 is available in a 16-pin WQFN package.

Key Features

Supports ST 424 (3G), 292 (HD), and 259 (SD)

Data Rates up to 2.97 Gbps

Supports DVB-ASI at 270 Mbps

Cable Detect on Output

Loss of Signal Detect at Input

Output Driver Power-Down Control

Typical Power Consumption: 130 mW in SD Mode and 155 mW in HD Mode

Typical Power Consumption of the Power-Save Mode: 4 mW

Single 3.3-V Supply Operation

75-Ω Single-Ended Outputs

100-Ω Differential Input

Selectable Slew Rate

Industrial Temperature Range: –40°C to 85°C

16-Pin WQFN Package

Footprint Compatible With the LMH0302

Recommended For You

LM1881N

Texas Instruments, Inc

DIP8

LMH1981MT/NOPB

Texas Instruments, Inc

TSSOP14

LMH1981MTX/NOPB

Texas Instruments, Inc

TSSOP14

LMH0002TMA/NOPB

Texas Instruments, Inc

SOIC-8

LMH0046MH/NOPB

Texas Instruments, Inc

TSSOP20

LMH0302SQ/NOPB

Texas Instruments, Inc

WQFN16

LM1881MX/NOPB

Texas Instruments, Inc

SOP8

LM1881N/NOPB

Texas Instruments, Inc

DIP

LMH1228RTVT

Texas Instruments, Inc

WQFN32

LMH0002MA/NOPB

Texas Instruments, Inc

SOIC-8

LMH0346SQE/NOPB

Texas Instruments, Inc

24WQFN

LMH0002SQ/NOPB

Texas Instruments, Inc

16-WQFN

LM1296N

Texas Instruments, Inc

DIP

LMH1980MM/NOPB

Texas Instruments, Inc

VSSOP10

LMH0001SQ/NOPB

Texas Instruments, Inc

QFN16