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LMH0344 Evaluation Board User Guide, Rev. 1.1

SD344 Rev. A

Overview

The SD344 Rev. A evaluation board provides a typical application for the evaluation of the LMH0344 3G HD/SD SDI Adaptive Cable Equalizer.

Specifications

DC Input Power Supply
PS1: 3.3V ± 5% (3.6V maximum)

Serial Data Input:
J1 (SDI): SMPTE 424M, 292M, or 259M standard levels and impedances.

Serial Data Outputs:
J2 & J3 (SDO): 50Ω, 375mV$_{P-P}$ single-ended (750mV$_{P-P}$ differential), positive-supply referenced signals.

Input Voltage (all inputs): -0.3V to VCC +0.3V

Control Pins and Jumper Settings:

Ref. Des.	Ref. Pins	Description
JP2	CD, MUTE	Carrier detect and mute control. Carrier Detect (CD) is high when no signal is present. MUTE is active high and may be used to force the outputs on or off, or tied to CD to allow automatic MUTE operation. To activate MUTE and force the outputs into a muted condition, set the jumper to pull MUTE to VCC. To turn off MUTE so that the outputs will never mute, set the jumper to tie MUTE to GND. For normal operation, set the jumper to tie CD to MUTE for automatic MUTE control.
JP4	MUTE$_{REF}$	Input voltage to control the MUTE threshold. Refer to datasheet for input range and details. Leave MUTE$_{REF}$ unconnected for normal operation.
JP3	BYPASS	Bypasses equalization and DC restoration when active. To put the device into bypass mode, set the jumper to pull BYPASS to VCC. To turn off BYPASS (for normal operation) set the jumper to pull BYPASS to GND.

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