

## LMH0202 Single Input / Dual Output Evaluation Board User Guide, Rev. 1.0

### DVB202ASM

### Overview

The DVB202ASM evaluation board provides a typical application for the evaluation of the LMH0202 dual SMPTE 292M / 259M cable driver with both inputs tied together. This is useful for DVB-ASI applications where two non-inverted outputs are required from a single input.

### Specifications

**DC Input Power:**  $3.3V \pm 5\%$  (3.6V maximum)

**Serial Data Inputs (SDI+, SDI-):** Typically SMPTE 259M or 292M standard levels and impedances. *Refer to datasheet for details.*

**Serial Data Outputs (SDO1+, SDO1-, SDO2+, SDO2-):** Typically SMPTE 259M or 292M standard levels and impedances. *Refer to datasheet for details.*

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

### Jumper Settings

**JP1 (SD/HD):** Sets the output slew rate for SDO1+, SDO1-, SDO2+, and SDO2-. Pin defaults to HD when no jumper is set. If set to SD, it is pulled to VCC and the output slew rate will comply with SMPTE 259M. If set to HD, it is pulled to ground and the output slew rate will comply with SMPTE 292M.

### Input Interfacing

The DVB202ASM is configured for 75 $\Omega$ , single-ended input.

### Adjusting the Output Level

The output level is set by  $R_{REF}$  (R7 on the DVB202ASM). Default  $R_{REF}$  value is 750 $\Omega$  for an 800mV<sub>P-P</sub> single-ended output. The resistor may be changed to adjust the output level according to the datasheet.