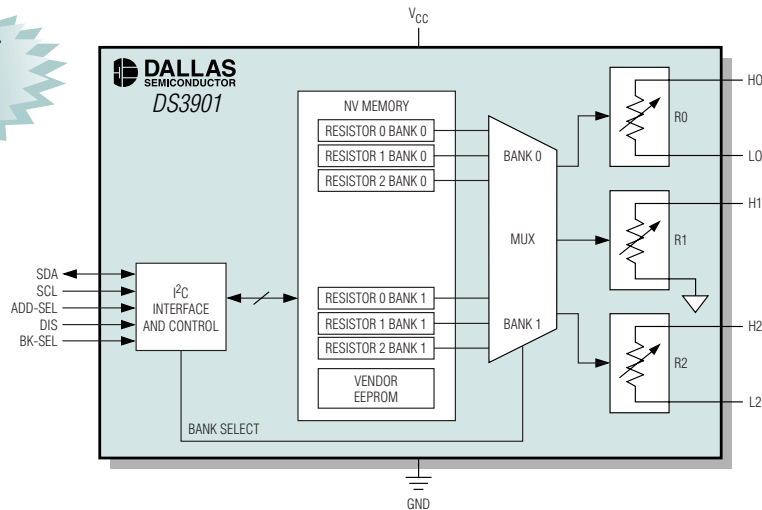


INDUSTRY'S FIRST VARIABLE RESISTOR WITH DUAL NV SETTINGS

Enables Two Calibration Settings for Each Resistor

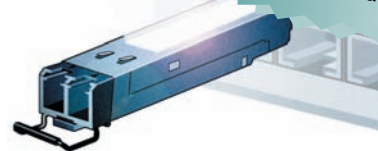
The DS3901 triple, 8-bit, nonvolatile variable resistor has a unique capability: each of its variable resistors can be programmed to two different values in nonvolatile memory. Toggling between the two values is accomplished by software through an I²C[‡] interface or through an input pin. The device is ideal for applications requiring two different factory calibrations for each resistor.

WIDE OPERATING-VOLTAGE RANGE (2.4V TO 5.5V)



- ◆ Three 256-Position, Linear Digital Resistors
 - ◆ 50k Ω , 30k Ω , and 20k Ω Full-Scale Resistances
 - ◆ Low 50ppm/ $^{\circ}$ C Temperature Coefficient
- ◆ Dual NV Settings for Each Resistor
- ◆ Two-Level Password Write Protection
- ◆ 232 Bytes User EEPROM
- ◆ I²C Serial Interface
 - ◆ Programmable Slave Address
- ◆ 14-Pin TSSOP Package

DUAL RESISTOR SETTINGS ENABLE DUAL OPERATING MODES



In this 100Mbps/1Gbps Ethernet optical-transceiver module, various transmit and receive parameters need to be calibrated differently for each mode of operation.

[‡]Purchase of I²C components from Maxim Integrated Products, Inc., or one of its sublicensed Associated Companies, conveys a license under the Philips I²C Patent Rights to use these components in an I²C system, provided that the system conforms to the I²C Standard Specification defined by Philips.



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