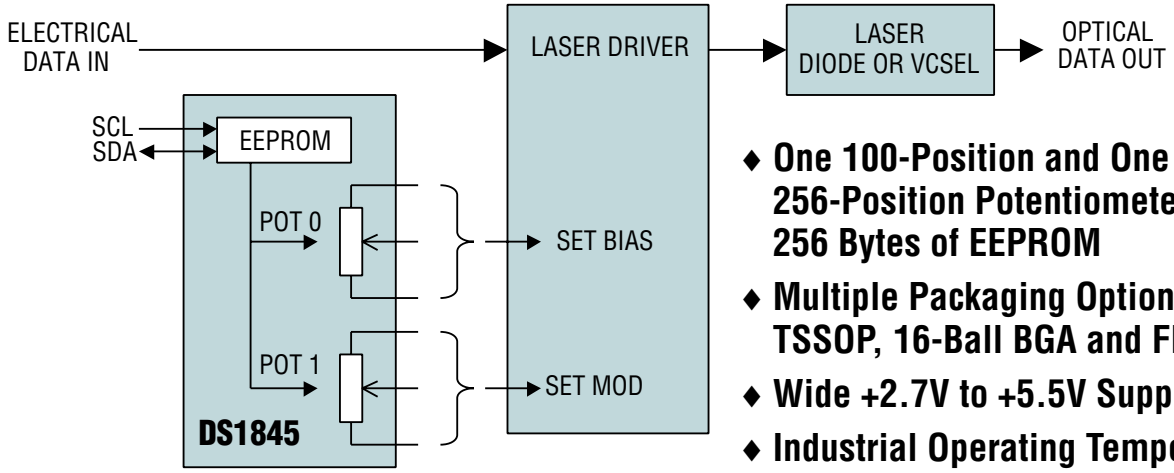
FIRST DEVICE TO INTEGRATE POTENTIOMETERS AND EEPROM MEMORY

Ideal for Pluggable Optical Transceiver Modules

The DS1845 gives the pluggable transceiver module designer everything in one small package. The device combines two potentiometers and 256 bytes of EEPROM memory. Solid-state potentiometers are used to control bias and modulation currents, providing a cleaner, more reliable solution than a mechanical potentiometer. During manufacturing, the potentiometers can be programmed electronically, which reduces test time associated with manual calibration. The 256 bytes of serial, addressable EEPROM are used to meet Multi-Source Agreement (MSA) industry standards for Small Form-Factor Pluggable (SFP) and Gigabit Interface Converter (GBIC) modules.

DS1845 APPLICATION IN TRANSMIT SIDE OF TRANSCEIVER MODULE



PART	VERSION POT 0/POT 1
DS1845-010	10kΩ/10kΩ
DS1845-050	10kΩ/50kΩ
DS1845-100	10kΩ/100kΩ

- **One 100-Position and One 256-Position Potentiometer; 256 Bytes of EEPROM**
- **Multiple Packaging Options: 14-Pin TSSOP, 16-Ball BGA and Flip Chip**
- **Wide +2.7V to +5.5V Supply Range**
- **Industrial Operating Temperature: -40°C to +85°C**
- **Evaluation Kit Available to Speed Designs**
- **Available for $1.33 in Quantities of 10,000 in TSSOP Packaging**

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