

General Description

The AS485 +5V, half-duplex, $\pm 15\text{kV}$ ESD-protected RS-485 compatible transceivers feature one driver and one receiver. The AS485 include a hot-swap capability to eliminate false transitions on the bus during power-up or live insertion.

The AS485 features reduced slew-rate drivers that minimize EMI and reduce reflections caused by improperly terminated cables, allowing error-free transmission up to 500kbps.

The AS485 feature a 1/8-unit load receiver input impedance, allowing up to 256 transceivers on the bus. These devices are intended for half-duplex communications. All driver outputs are protected to $\pm 15\text{kV}$ ESD using the Human Body Model.

The AS485 is available in SOP8 package. The devices operate over the extended -40°C to $+85^\circ\text{C}$ temperature range.

Features

- ◆ +5V Operation
- ◆ Hot-Swappable for Telecom Applications
- ◆ Enhanced Slew-Rate Limiting Facilitates Error-Free Data Transmission
- ◆ Extended ESD Protection for RS-485 I/O Pins $\pm 15\text{kV}$ Human Body Model
- ◆ 1/8 Unit Load, Allowing Up to 256 Transceivers on the Bus
- ◆ Package: SOP8

Applications

- ◆ Isolated RS-485 Interfaces
- ◆ Utility Meters
- ◆ Industrial Controls
- ◆ Industrial Motor Drives
- ◆ Automated HVAC Systems

Package Configuration

