

Fault Protected Rs 485 Transceivers With Extended Common

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Fault Protected Rs 485 Transceivers

Maxim offers fault-protected RS-485/RS-422 transceivers that can survive DC voltages up to $\pm 80V$ on the data pins. This makes them the most robust transceivers in the industry and, therefore, ideal for automotive, truck, HVAC, and industrial applications.

Fault-Protected RS-485/RS-422 Transceivers - Maxim Integrated

Renesas' fault protected RS-485/RS-422 transceivers, also known as overvoltage protected transceivers (OVP), offer robust fault tolerance and high performance. Product List.

RS-485/RS-422 Fault Protected | Renesas Electronics

Key Features $\pm 80V$ Fault Protection on the RS-485 I/O Ports True Fail-Safe Receiver Hot-Swap Input Structure on DE ESD Protection on the RS-485 I/O Ports $\pm 8kV$ Human Body Model Slew-Rate Limiting Facilitates Error-Free Data Transmission 1/8-Unit Load Allows Up to 256 Transceivers on the Bus -7V to ...

$\pm 80V$ Fault-Protected, Full-Duplex RS-485 Transceiver

The MAX14775E/MAX14776E fault-protected RS-485/RS-422 transceivers feature $\pm 65V$ protection for overvoltage signal faults on communication bus lines, ensuring communication in harsh industrial environments. Each device contains one driver and one receiver and operates over the 3V to 5.5V supply range. The MAX14775E is optimized for high-speed data rates up to 20Mbps.

$\pm 65V$ Fault Protected 500Kbps/20Mbps Half-Duplex RS-485/RS ...

The MAX13442E/MAX13444E are fault-protected RS-485 and J1708 transceivers that feature $\pm 80V$ protection from signal faults on communication bus lines. The MAX13442E/MAX13444E feature a reduced slew-rate driver that minimizes EMI and reflections, allowing error-free transmission up to 250kbps. The MAX13443E driver can transmit up to 10Mbps.

$\pm 15kV$ ESD-Protected, $\pm 80V$ Fault-Protected, Fail-Safe RS ...

The RS-485 transceiver pins (driver outputs and receiver inputs) are fault protected up to $\pm 60V$ and are protected against $\pm 16.5kV$ ESD strikes without latch-up.

ISL32492E | RS-485/RS-422 Fault Protected

The ISL32483E and ISL32485E (ISL3248xE) are fault protected, 5V powered differential transceivers that exceed the RS-485 and RS-422 standards for balanced communication. The RS-485 transceiver pins (driver outputs and receiver inputs) are fault protected up to $\pm 60V$ and are protected against $\pm 16.5kV$ ESD strikes without latch-up.

ISL32485E | RS-485/RS-422 Fault Protected

The RS485 and RS422 transceivers commonly available from several vendors are all vulnerable to damage from fault voltages only slightly outside the $-7V$ to $12V$ operating envelope. One vendor's RS485 transceivers have absolute maximum voltage ratings of $-8V$ to $12.5V$ on the data I/O pins.

LT1785 and LT1791: 60V, Fault-Tolerant RS485/RS422 ...

The ISL3245xE are 3.3V to 5V powered, fault protected, extended Common-Mode Range (CMR) differential transceivers for balanced communication. The RS-485 bus pins (driver outputs and receiver inputs) are protected against overvoltages up to $\pm 60V$, and against $\pm 15kV$ ESD strikes.

ISL32452E | RS-485/RS-422 Fault Protected

THVD2410 and THVD2450 are $\pm 70V$ fault-protected, half-duplex, RS-422/RS-485 transceivers operating on a single 3-V to 5.5-V supply. Bus interface pins are protected against overvoltage conditions during all modes of operation ensuring robust communication in rugged industrial environments.

THVD2410 data sheet, product information and support | TI.com

SN65HVD178x Fault-Protected RS-485 Transceivers With 3.3-V to 5-V Operation datasheet (Rev. H)

SN65HVD1780 data sheet, product information and ... - TI.com

The MAX33072E/MAX33073E are a family of fault-protected RS-485/RS-422 transceivers with high $\pm 65V$ protection for overvoltage conditions on the communication bus lines, ensuring robust protection in harsh industrial environments. Both devices have $\pm 40V$

MAX33072E +3V to +5.5V, Polarity Invert RS-485 Half-Duplex ...

Designed for RS-485 and RS-422 Networks All other trademarks are the property of their respective owners Description for the SN65HVD1793 These devices are designed to survive overvoltage faults such as direct shorts to power supplies, mis-wiring faults, connector failures, cable crushes, and tool mis-applications.

SN65HVD1793D | 70-V Fault-Protected RS-485 Transceivers ...

Maxim Integrated MAX14775E/MAX14776E RS-485/RS-422 Transceivers are fault-protected RS-485/RS-422 transceivers that feature $\pm 65V$ protection. These devices are designed for overvoltage signal faults on communication bus lines, ensuring communication in harsh industrial environments.

MAX14775E/MAX14776E RS-485/RS-422 Transceivers - Maxim ...

The EVAL-RS485HDEBZ allows quick and easy evaluation of half-duplex RS-485 transceivers with standard 8-lead SOIC footprints. The evaluation board allows interfacing via screw terminal block to digital I/O for driver input (DI), receiver output (RO), driver enable (DE) and receiver output (RO).

LT1785 Datasheet and Product Info | Analog Devices

The MAX13448E full-duplex RS-485 transceiver features inputs and outputs fault protected up to $\pm 80V$ (with respect to ground). The device operates from a $+3.0V$ to $+5.5V$ supply and features true fail-safe circuitry, guaranteeing a logic-high receiver output when the receiver inputs are open or shorted.

$\pm 80V$ Fault-Protected Full-Duplex RS-485 Transceiver

The MAX3430 fault-protected RS-485 transceiver features $\pm 80V$ protection from overvoltage signal faults on communication bus lines. Each device contains one driver and one receiver, and the output pins can withstand faults, with respect to ground, of up to $\pm 80V$.

±80V Fault-Protected, Fail-Safe, 1/4-Unit Load, +3.3V RS ...

THVD2410 and THVD2450 are fault-protected, half-duplex RS-485 transceivers commonly used for asynchronous data transmissions. For these devices, the driver and receiver enable pins allow for the configuration of different operating modes. 9.2 Typical Application An RS-485 bus consists of multiple transceivers connecting in parallel to a bus cable.

THVD24x0 ±70-V Fault-Protected 3.3-V to 5-V RS-485 ...

Designers requiring longer uptime for industrial automation applications can accelerate troubleshooting and communicate across larger networks with the MAX33012E controller area network (CAN) bus transceiver and the MAX33072E RS-485 half-duplex transceiver from Maxim Integrated Products, Inc. (NASDAQ: MXIM).

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