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The Perfect, Perfectly Rugged RS485 Transceivers for PROFIBUS RS-485 Circuit Implementation

Essential Analog Toolkit: RS-485 TransceiversCAN vs. RS-485: What's the Difference? TI Precision Labs - RS-485: Best practices for implementing RS-485 transmission

TI Precision Labs - RS-485: What is RS-485? Integrated surge protection for RS-485 communications RS 485 Data bus theory and practice World's Lowest-Power Isolated RS-485

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Transceiver Isolated RS485 Transceiver with Power in One Small Package Isolated RS-485 transceiver with integrated DC-DC convertor ~~UART To RS-485 Interface / Pro Mini / LoRa Interface xEssentials S3E13 How to Setup a Falcon Controller Long Range Wireless Data Communicatoin using LoRa (Up to 10km Line of Sight)~~

Difference between RS 232 RS 422 and RS 485 communication

#387

RS-232

RS-485, RS-422,

USB, Usart

Controller Setup: xLights Quick Start 2020 Explaining The Basics Of RS-232 Serial Communications RS-485

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Charge Controller RS485 WiFi Adapter Shootout - 12v Solar Shed Designing and Installing an RS485 Serial Network

Fundamentals of Serial Transceiver Devices

How to Design with High-Speed RS-485 Transceivers RS485 transceiver delivers in extreme temperature and high noise environments ADM2582E: Signal and Power Isolated RS-485 Transceiver SparkFun According to Pete #54 - How RS-485 Works TI Precision Labs - RS-485: How far and fast can RS-485 communicate? Isolated RS485 Transceiver with Power in One Small Package SDG #021 Build A 6 Digit 2.3" LED Clock 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

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industry and, therefore, ideal for automotive, truck, HVAC, and industrial applications.

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

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 ou

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

THVD24x0 $\pm 70-V$ Fault-Protected 3.3-V to 5-V RS-485

Transceivers With IEC ESD 1 1 Features 1• Meets or exceeds

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the requirements of the TIA/EIA-485A and TIA/EIA-422B standards • 3-V to 5.5-V supply voltage • Differential output exceeds 2.1 V for PROFIBUS compatibility with 5-V supply • Bus I/O protection – ± 70 -V DC bus fault – ± 16 -kV HBM ESD

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

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

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

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Duplex ...

RS-485 bus pins (driver outputs and receiver inputs) are protected against overvoltages up to $\pm 60V$. Additionally, these transceivers operate in environments with common mode voltages up to $\pm 15V$ (exceeds the RS-485 requirement), making this RS-485 family one of the more robust on the market. Transmitters deliver an exceptional 2.5V (typical)

Fault Protected, Extended Common Mode Range,

RS-485/RS-422 ...

Buy Fault Protected RS-485 Transceiver 8-Pin SN65HVD1781D or other Line Transceivers online from RS for next day delivery on your order plus great service and a great price from the largest electronics components

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SN65HVD1781D | Fault Protected RS-485 Transceiver 8-Pin ...

The MAX14891E quad fault-protected RS-485/RS-422 receiver is ideal for applications requiring high data rates and reduced noise in rugged environments. Each receiver features a wide common-mode input range of -20V to +20V and is guaranteed to receive

Quad Fault-Protected RS-485/RS-422 Receiver with Fault ...

THVD2410 and THVD2450 are ± 70 -V 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

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[THVD2410 data sheet, product information and support | TI.com](#)

The RS-485 bus pins (driver outputs and receiver inputs) are fault protected against overvoltages up to $\pm 60V$ and are protected against $\pm 16.5kV$ ESD strikes without latch-up. Additionally, these transceivers operate in environments with common-mode voltages up to $\pm 15V$ (exceeds the RS-485 requirement), making this fault-protected RS-485 family one of the most robust on the market.

[ISL32475E | RS-485/RS-422 Fault Protected](#)

OVERVIEW. The ISL3245xE are 3.3V to 5V powered, fault

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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. These transceivers operate in environments with common-mode voltages up to $\pm 20V$ (exceeds the RS-485 requirement), making this RS-485 family one of the most robust on the market.

ISL32450E | RS-485/RS-422 Fault Protected

THVD2450 ACTIVE $\pm 70-V$ fault-protected 3.3-V to 5-V RS-485 transceiver with IEC ESD Pin-to-pin device that offers integrated $\pm 70-V$ fault-protection, IEC ESD protection (12-kV contact discharge), IEC EFT (4-kV noise immunity), and

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[SN65HVD1782 data sheet, product information and ... - TI.com](#)

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 ...

[Fault Protected Rs 485 Transceivers With Extended Common](#)
Fault-protected transceivers with common-mode ranges wider than specified in the RS-485 standard require double

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fold-back current limiting within the driver stage. Figure 4 shows the current limiting function of the ISL3245x family of fault-protected transceivers that operate over the wide common-mode range of $\pm 20V$.

RS-485 transceivers need protection against large over ...

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.

[± 80V Fault-Protected Full-Duplex RS-485 Transceiver](#)

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The ISL32450E through ISL32459E are 3.3V to 5V powered, fault protected, extended common-mode range 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.

$\pm 60V$ Fault Protected, 3.3V to 5V, $\pm 20V$... - RS Components

The MAX3440E–MAX3444E fault-protected RS-485 and J1708 transceivers feature $\pm 60V$ protection from signal faults on communication bus lines. Each device contains one differential line driver with three-state output and one differential line receiver with three-state input.

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[± 15kV ESD-Protected, ± 60V Fault ... - RS Components](#)

The MAX3443EESA+T Line transceiver has a data rate of guaranteed 10 MBPS making it a very versatile device. It includes fault protected RS-485 and J1708 transceivers feature ± 60V protection from signal fault on bus lines. ± 15kV ESD (Electrostatic discharge) protection enhances the life span of this line transceiver. This line ...

[Maxim Integrated MAX489ESD+, Line Transceiver, RS-422, RS ...](#)

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

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maximum voltage ratings of - 8V to 12.5V on the data I/O pins.

[LT1785 and LT1791: 60V, Fault-Tolerant RS485/RS422 ...](#)

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