MWE485-TTL

RS485 to TTL/LVTTL interface converter



- Supports one RS485 serial port to one TTL interface, TTL compatible with LVTTL, both using DB9M male connectors, and comes with terminal block adapters;
- Supports transparent transmission, 300bps~460800bps baud rate adaptive;
- Unique serial port protection circuit, hot-swappable, plug and play;
- Supports one master and multiple slave communication modes, RS485 supports 128 nodes, automatically identifies RS485 signal flow direction;
- Supports 15kV ESD protection and 600W surge protection;
- Supports DC5V or DC3.3V external power input;
- Compact structure, small size, simple installation, and secure connection;
- Supports a wide operating temperature range of -40℃ to +85℃, meeting the needs of industrial environments.

Product Descriptions

The MWE485-TTL is an RS485 serial port to TTL/LVTTL level interface converter. It enables bidirectional transparent conversion and seamless interface between serial ports and TTL/LVTTL levels, ensuring signal attenuation, distortion, or loss during transmission due to level mismatch, thus guaranteeing data transmission integrity and reliability. Simultaneously, leveraging the long-distance communication and multi-point connection capabilities of RS485, it expands the coverage and connectivity of TTL device communication systems, making different RS485 and TTL devices compatible, increasing device selection flexibility and system scalability. This converter automatically detects the serial port baud rate, providing convenient usage advantages; even if the device's baud rate changes, the data stream can be transmitted through the converter without loss. It uses I/O circuitry to automatically control the data flow direction, eliminating the need for handshake signal jumper settings and ensuring compatibility with existing communication software and interface hardware. It is hot-swappable and has excellent high and low temperature resistance, operating stably in environments ranging from -40℃ to +85℃. It can be widely used in industrial automation, control systems, intelligent transportation, intelligent security, data acquisition and processing, remote monitoring, and many other fields.

Specification

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Serial Port	Standard: EIA RS485 Interface Type: 1-channel RS485 serial port Connection Method: DB9M or 4-position 5mm pitch terminal blocks RS485 Signals: A+, B-, GND Baud Rate: 300bps~460800bps Number of Nodes: Up to 128 nodes can be connected via RS485 Direction Control: Automatically identifies RS485 flow direction Transmission Distance: <1.2km Termination Resistor: 120Ω, adjustable via adapter jumper cap Interface Protection: 15kV ESD protection, 600W surge protection
TTL	Interface Type: 1-channel TTL interface, compatible with LVTTL Connection Method: DB9M or 4-position 5mm pitch terminal blocks TTL Signals: TX, RX, GND Interface Protection: 15kV ESD protection
Power parameters	
Input Voltage	DC5V, compatible with DC3.3V (the power interfaces at both ends of RS485 and TTL can be selected arbitrarily).
Operating Current	≤23mA@DC5V, ≤15mA@DC3.3V
Connection Method	DB9M or 4-position 5mm pitch terminal blocks
Mechanical parameters	
Dimensions	62.8×33.3×16.5mm (excluding adapter)
Housing protection	Plastic casing
Weight	50g(Including terminal blocks)
Work environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)

Ordering Information

Standard Model	RS485	TTL	Power
MWE485-TTL	1	1	DC5V or DC3.3V

Contact Us

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