MS210-1DB3TE45-D2

1-Port Wall-mount Industrial Serial Server / Modbus

Features

- 1 x RS232/485/422 serial port to 1 x 10/100 Base-T(X) electrical port
- Supports serial terminal device networking, convertible to UDP, TCP, Modbus, etc.
- Supports conversion between Modbus RTU/ASCII and Modbus TCP; supports Modbus RTU/ASCII Over TCP transparent transmission
- Provides industrial-grade DC 9~36 V power input with overcurrent and short-circuit protection
- High-strength metal enclosure, IP30 protection rating, fanless enclosure cooling
- Operating temperature: -40°C ~ +75°C
- EMC level complies with Level 4



Product

The MS210-1DB3TE45-D2 is a wall-mount industrial serial server / Modbus gateway,

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URL: www.transcendcom.com

providing 1 x 10/100 Base-T(X) electrical port and 1 x RS-232 (DB9) / RS-422 (industrial terminal block) / RS-485 (industrial terminal block) serial port.

The MS210-1DB3TE45-D2 supports web-based configuration for various management functions such as serial/network operation mode, network logging, and system management; supports multiple conversion modes including UDP, TCP Client/Server, Modbus RTU/ASCII, enabling serial-to-Ethernet or Modbus TCP protocol conversion. In core components, the product adopts an industrial-grade quality design with wide temperature/voltage tolerance, lightning protection, and anti-EMI Anti-EMI interference, high reliability, high performance, suitable for harsh environments. It can be applied in industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, mining, oil, chemical, new energy, and other industries for remote field data acquisition, remote monitoring, and field control — an indispensable industrial communication product for Industrial IoT development.

Specific

Standards Compliance	
Standards	IEEE 802.3i (10Base-T) IEEE 802.3u (100Base-TX) EIA RS-232/422/485
Software Features	
Network Protocols	IP, TCP, UDP, ICMP, DHCP, DNS, HTTP
IP Acquisition	Static IP / DHCP
DNS Resolution	Supported
User Configuration	Web-based configuration, supports Chinese/English bilingual switching
Transparent Transmission Mode	UDP / TCP Client / TCP Server
Modbus	Modbus RTU / ASCII to Modbus TCP
TCP Server Connections	Single serial port supports up to 8 TCP Client connections
Auto Reconnection	Supports auto reconnection with customizable time interval
Security Protection	Supports web access whitelist
Serial Data Framing	Supported
Log Service	Supports log export
Management Service	Supports configuration file import/export
Average Transmission Latency	<10 ms
Companion Software	Network Management Configuration Tool

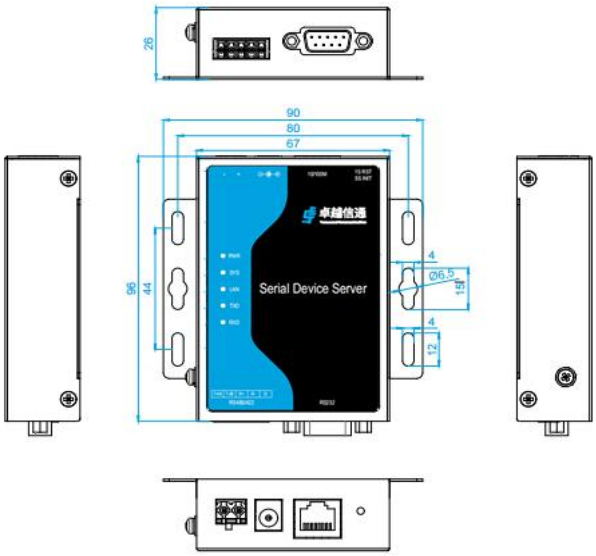
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Port Performance	
Serial Port	Serial Port Type: 1 x RS232/485/422 Connection: RS485/422 uses 5-pin 3.8 mm pitch terminal block; RS232 uses DB9 Male connector Baud Rate: 2400 bps ~ 230400 bps Data Bits: 8 bit Stop Bits: 1 bit, 2 bit Parity: None, Odd, Even
Electrical Port	1 x 10/100 Base-T(X) auto-sensing RJ45 electrical port, full/half duplex, MDI/MDI-X adaptive
LED Indicators	PWR (Power indicator), SYS (System run indicator), LAN (Ethernet link indicator), TXD/RXD (Serial data TX/RX indicator)
Button	One-button restart or factory reset button
Mechanical	
Dimensions	67 mm × 26 mm × 96 mm (W × D × H)
Weight	Approx. 0.21 kg
Mounting Method	Wall-mount Installation
Enclosure Protection	IP30 protection, metal enclosure
Electrical Performance	
Input Voltage	9~36 VDC wide voltage input, 2-pin terminal block & 2.1 mm inner / 5.5 mm outer diameter center-positive DC power jack
Power Consumption	<1 W
Operating Environment	
Operating Temperature	-40°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	5%~95%, non-condensing
Standards and Certifications	
EMI	FCC CFR47 Part 15B Class A, CE EN55032 Class A
ESD Immunity	Complies with EN61000-4-2
RF Electromagnetic Field Radiation Immunity (RS)	Complies with EN61000-4-3
Electrical Fast Transient Burst Immunity (EFT)	Complies with EN61000-4-4
Surge Immunity	Complies with EN61000-4-5
Conducted Susceptibility Immunity to RF Field (CS)	Complies with EN61000-4-6
Power Frequency Magnetic Field Immunity (PFMF)	Complies with EN61000-4-8
Vibration Test	Complies with IEC 60068-2-6

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Shock Test	Complies with IEC 60068-2-27
Free Fall Test	Complies with IEC 60068-2-32

Physical



Orderin

Model	Description
MS210-1DB3TE45-D2	Wall-mount industrial serial server/Modbus gateway, 1 x 10/100 Base-T(X) electrical port, 1 x RS-232 (DB9) / RS-422/485 (industrial terminal block) serial port, 9~36 VDC power supply, IP30 protection rating.

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More

For further information about Transcend products, please visit our official website or contact our local sales offices worldwide.

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