

MWF516 Series

1*RS232/485/422 to 16-channel fiber optic hub



- Supports 1 RS232/485/422 serial port and 16 fiber optic interfaces.
- Used with MWF201 to build a fiber optic star network.
- RS485/422 supports 600W/ms lightning protection and 1.5kV electrostatic discharge protection.
- RS232 serial port protection circuit, hot-swappable.
- Power and transceiver indicator lights accurately indicate operating status.
- Industrial-grade design and all surface mount technology ensure long-term product reliability.





Product Descriptions

The MWF516 16-channel star network fiber optic converter is used to build star fiber optic networks, enabling transparent transmission of RS232/485/422 data over these networks. It is fully adaptive and requires no changes to the user protocol. It resolves the contradiction between long communication distances, high communication rates, and numerous, geographically dispersed nodes, while also addressing challenges such as electromagnetic interference, ground loop interference, and lightning damage, significantly improving the reliability, security, and confidentiality of data communication.

The MWF516 series features a wide range of AC/DC power inputs. In terms of structural installation, the product adopts a 1U rack mount. Regarding core components, the product employs a high-quality design, with a transmission rate ranging from 300bps to 115200bps. It enables point-to-point and point-to-multipoint remote multi-machine communication networks between main controllers, and between the main controller and microcontrollers or peripherals, achieving multi-machine response communication. The product is widely used in industrial automation control systems, all-in-one cards, access control systems, parking systems, self-service banking systems, public bus fare collection systems, canteen meal service systems, company employee attendance management systems, highway toll station systems, etc., making it an indispensable product for industrial communication.

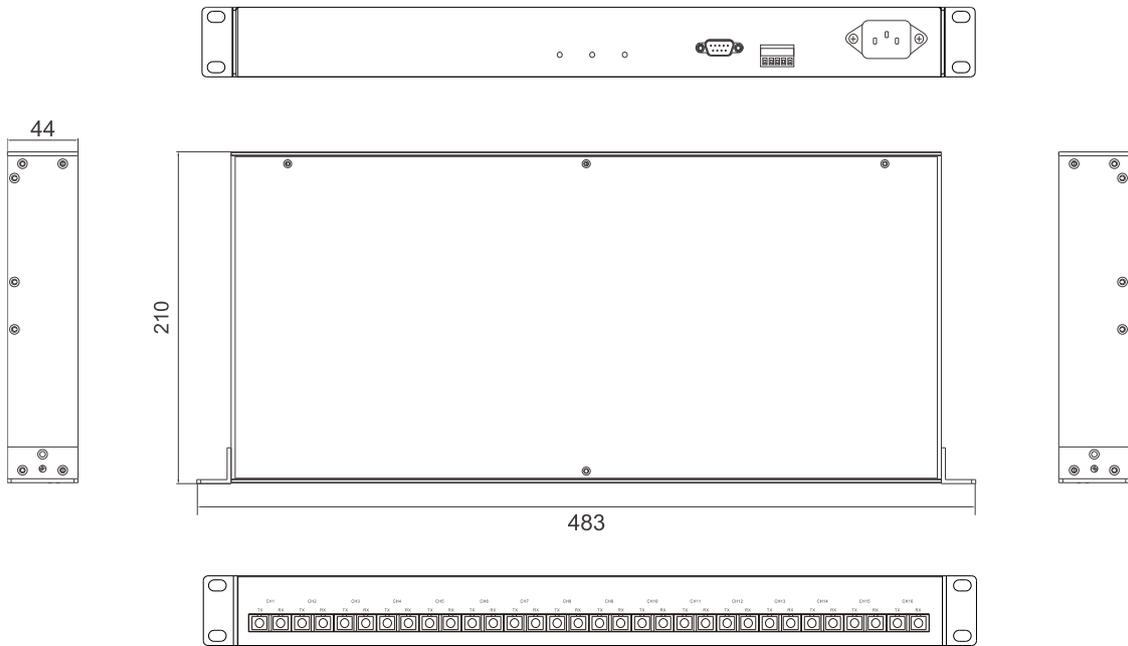
☑☑☑ Specification

Interface	
Serial Port	Interface: 1*RS232/485/422 Baud rate: 300bps~115200bps RS232 signal: RX, TX, GND RS485/RS422 signal: A+/T+, B-/T-, R+, R-, GND Connection: RS232 adopts DB9F, RS422/48S adopts 5-position pitch lock terminals Number of nodes: RS485 supports 128 nodes Direction control: Automatically identify RS485 flow direction Interface protection: 15kV electrostatic protection, 600W/ms lightning protection
Fiber Port	Interface: 16*optical fiber interfaces, ST/SC/FC connector Transmission distance: multi-mode 2~5km, single-mode 20km (40/60/100km optional) Transmission wavelength: multi-mode 850nm/1310nm or single-mode 1310nm/1550nm optional Fiber type: multi-mode fiber 62.5/125μm or 50/125μm, single-mode fiber 9/125μm Optical power and sensitivity: ≥-8dBm, ≤-20dBm (refer to different types of optical modules for details)
Status LED	Power LED , serial port status LED
Power Supply	
Input Voltage	AC 85~264V or DC110~370V
Power Consumption	< 5W
Connection	AC socket
Physical Characteristics	
Dimensions	483×44×210 mm
Installations	19 inch 1U Rack mount
Weight	3.2kg
Working Environment	
Operating Temp	-20°C~+70°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)



Dimensions

Unit: mm





Ordering Information

Standard Model	RS232/485/422	Fiber Port	Power
MWF516-4F(M/S)	1	4	AC 85~264V or DC110~370V
MWF516-8F(M/S)	1	8	
MWF516-10F(M/S)	1	10	
MWF516-16F(M/S)	1	16	

Contact Us

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