

CSF516 Series

RS232/485/422 Fiber Hub Converter



- Supports 1 x RS232/485/422 serial port with optional 4/8/10/16 fiber ports, fiber ports support multiple types of optical modules
- Works with CSF201 fiber converters to build fiber star networks
- Support RS232/485/422 serial port conversion and long-distance communication, with fiber ports reaching up to 100km
- Support transparent transmission with auto baud rate detection from 300bps to 115200bps
- Built-in intelligent module automatically identifies RS485 signal direction
- Support master-slave communication mode with RS485 supporting up to 128 nodes
- Support DC 18~72V input or AC 85~264V / DC 110~370V AC/DC power input options
- Rugged metal housing with IP40-rated housing protection
- Support -40°C to +85°C wide operating temperature range

Product Description

The CSF516 series is a fiber hub converter designed to establish star-topology fiber networks. It enables transparent transmission of RS232/485/422 signals over fiber networks with full auto-adaptation, requiring no modification to user protocols. Supports 1 x RS232/485/422 serial port with optional 4/8/10/16 fiber ports. It resolves the challenges of long communication distances, high data rates, and numerous dispersed nodes while eliminating issues caused by electromagnetic interference, ground loop interference, and lightning damage. This significantly enhances the reliability, security, and confidentiality of data communication.

The CSF516 series offers a wide-range DC or AC/DC power input option. For structural installation, the product adopts a 1U rack-mount design. Core components feature high-quality design solutions with transmission rates ranging from 300bps to 115200bps. This enables point-to-point or point-to-multipoint remote multi-machine communication networks between master controllers, or between master controllers and microcontrollers/peripherals, supporting multi-machine response communication. Widely applied in industrial automation control systems, integrated access cards, access control systems, parking systems, self-service banking systems, bus fare collection systems, cafeteria meal sales systems, corporate employee attendance management systems, highway toll station systems, and more, this product is indispensable for industrial communication.

Technical Specifications

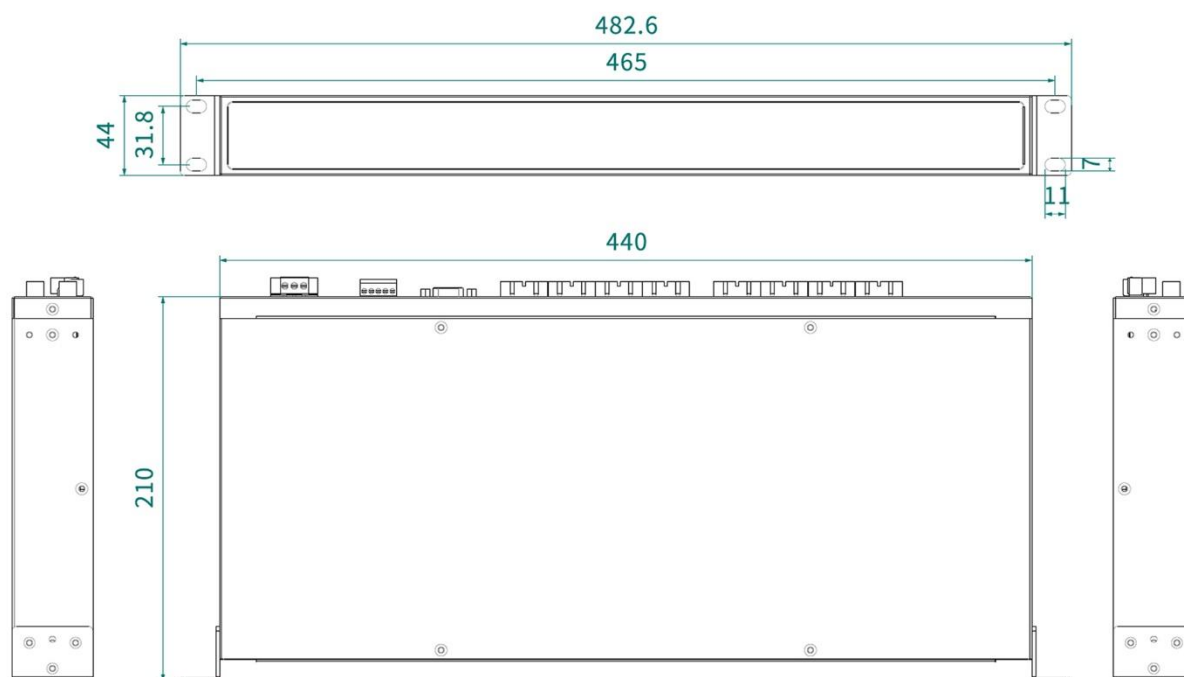
Interface	
Serial Port	Standard: Complies with EIA RS232, RS485, RS422 Interface Type: 1 x RS232 or RS485/422 serial port Connection Method: RS232 uses DB9F connector; RS485/422 uses 5-pin 3.81mm pitch terminal block RS232 Signals: TX, RX, GND RS485/422 Signals: T+(A), T-(B), R+, R-, GND Baud Rate: 300bps to 115200bps Number of nodes: RS485 supports up to 128 nodes Direction control: Automatically detects RS485 flow direction
Fiber Port	Interface type: Selectable 4/8/10/16-port fiber interfaces; ST/SC/FC connectors available Transmission distance: Selectable multimode dual-fiber 1310nm 2km or

	single-mode dual-fiber 1310nm 20km (40/60/80/100km optional) Transmission Wavelength: Multimode 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 & Sensitivity: ≥-8dBm, ≤-20dBm (refer to specific optical module models)
Status LED	Power indicator, Operation indicator, Serial port transmit/receive indicators, Fiber port transmit/receive indicators
Power Supply	
Input Voltage	DC models: DC18~72V, reverse polarity protection AC models: AC85~264V / DC110~370V
Power Consumption	<1W@DC24V, <1W@AC220V (Full load)
Connection	3-pin 5.08mm pitch locking terminal block
Physical Characteristics	
Dimensions	482.6×44×210mm (excluding mounting brackets)
Installations	Standard 19-inch 1U rack mount
IP Code	High-strength metal housing, IP40 protection rating
Weight	About 2.3kg
Working Environment	
Operating Temp	-40°C~+85°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 3 (contact discharge ±8kV, air discharge ±8kV) IEC 61000-4-5 (Surge): Level 3 (Power supply: common mode ±2kV, differential mode ±1kV;

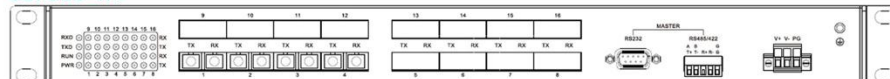
RS485/422: common mode $\pm 2\text{kV}$, differential mode $\pm 2\text{kV}$)
IEC 61000-4-4 (EFT): Level 4 (Power supply: $\pm 4\text{kV}$, RS485/422: $\pm 2\text{kV}$)

Dimensions

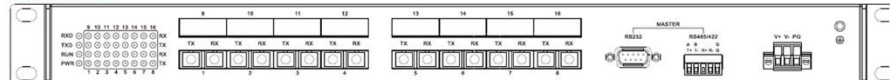
Unit: mm



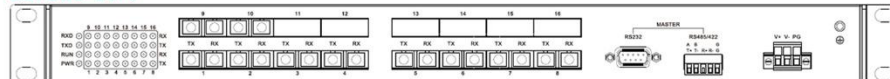
CSF516-4F:



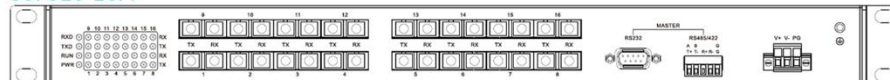
CSF516-8F:



CSF516-10F:



CSF516-16F:



Ordering Information

Standard Model	RS232/485/422	Fiber Port	Input Voltage
CSF516-4F(M/S)-AD220	1	4	AC 85~264 V or DC 110~370 V
CSF516-8F(M/S)-AD220	1	8	
CSF516-10F(M/S)-AD220	1	10	
CSF516-16F(M/S)-AD220	1	16	
CSF516-4F(M/S)-DC48	1	4	DC18~72V
CSF516-8F(M/S)-DC48	1	8	
CSF516-10F(M/S)-DC48	1	10	
CSF516-16F(M/S)-DC48	1	16	



Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

Copyright © Come-Star All rights reserved