



## 1 channel RS232/422/485 serial to Ethernet converter

### Overview

This serial to ethernet converter is a high-performance serial port networking server from serial port to 10/100m Ethernet developed by our company based on independent software. It completes the transparent transmission from serial port to Ethernet network.

The serial port of the device supports RS232, RS422 and RS485 interfaces, Ethernet port, and the serial interface of the device can be converged (in the form of IP packet) to Ethernet data interface. Convenient serial port data after the long - distance extension of data management, to meet the needs of different ways of management software. IP packet mode serial port can use Socket communication or redirection software virtual serial port communication.

Can be used in many embedded network control applications:

- smart home devices: smart home gateway, smart socket, smart switch
- security access control: network access control, alarm equipment, infrared detection alarm, remote card reader
- network IO controller: industrial remote IO input, remote relay control
- industrial automation
- building intelligence and energy monitoring
- medical monitoring equipment

### Picture





## Features

- Integrated full - function serial port to TCP/IP software, easy to use.
- Ethernet interface 10M/100M, full/half duplex adaptive and cross through adaptive.
- Auto-nego Full&half duplex (auto-nego Full&half duplex), auto-cross detection (MDI/MDIX)
- Support TCP server, TCP client, UDP, UDP multicast working mode.
- As a TCP server, it supports simultaneous communication with 100 clients. As a TCP client, it can connect to 8 destination IP and ports simultaneously.
- Baud rate support 1200 ~ 115200, support hardware and software flow control.
- The serial data interface conforms to rs-232 / rs-485 / rs-485 related standards, and different bus modes can be set by dialing code.
- High density veneer design, improve the reliability of the system, with easy installation and debugging, stable performance characteristics;
- Flexible power supply design, can use dc9v-dc55v or ac7v-ac48v wide voltage input power supply;

## Parameters

### ◆ Serial interface

Fiber Type:	Based on the selected SFP module
Connector:	SFP port
Maximum transmission distance:	Based on the selected SFP module (Take 40KM SFP module as an example)
Transmission distance:	40Km @ 9 / 125um single mode fiber,attenuation (0.35dbm/km)
Wave Length:	1310nm
Transmitting power:	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity:	-27dBm (Min)
Link budget:	18dBm



## ◆ Electrical and mechanical properties

System power supply: AC7V ~ 48V; DC9V ~ 55 v

Power consumption: 5 w or less

Appearance structure: (length × width × height) 93\*70\*25mm

## ◆ Ethernet interface(10/100M/1000M)

Agreement: IEEE 802.3, IEEE 802.1q (VLAN)

Speed rate: 10/100m self-adaptive, full/half duplex fully self-adaptive

MAC address table: you can learn 8K MAC addresses

Physical interface: RJ45, support auto-mdix (cross/straight line adaptive)

## ◆ Working environment

Operating temperature: -10°C -- +60°C

Storage temperature: -40°C - +85°C

Working humidity: 0% -- 95% (no condensation)

MTBF: > 100,000 hours

## Specifications

Model	Model Number: FCT-S1
Functional Description	Transmit 1 way rs232/422/485 serial port over Ethernet, desktop style
Port Description	1 Ethernet interface; 1 channel rs232/422/485 serial port
Power	AC7V~48V; DC9V~55V
Dimension	Product Size: 93*70*25mm(WDXH)
Weight	0.3KG/Pcs

## Typical Application

