

# Power Serial Device Server



## Overview

The SED16 Serial device servers are designed to make serial devices network-ready in an instant and give your PC software direct access to serial devices from anywhere on the network. The serial device servers are ultra lean, ruggedized, and user friendly, making simple and reliable serial to Ethernet solutions possible.

## Features and Benefits

- World's lowest power consumption
- Speedy 3-step web-based configuration
- Surge protection for serial, Ethernet, and power lines
- COM port grouping and UDP multicast applications
- Screw connectors for secure installation
- DC power inputs with terminal block
- Versatile TCP and UDP operation modes

## A Greener Serial-to-Ethernet Solution

The SED16 is a small but powerful ARM-based serial-to-Ethernet SoC with RAM and Flash embedded. With the ARM9 inside, the serial series becomes the lowest power consumption device server in the world. The serial series saves at least 50% on power consumption compared to existing solutions on the market, helping engineers meet the tough environmental compliance challenges found in today's industrial environments.

## 3-step Web-based Configuration

The SED16's 3-step web-based configuration tool is straightforward and user-friendly. The SED16's web console guides users through 3 simple configuration steps that are necessary to activate the serial-to-Ethernet application. With this speedy 3-step web-based configuration, a user only needs to spend an average of 30 seconds to complete the settings and enable the application, saving a great amount of time and effort.

## COM Port Grouping

The SED16's COM Grouping function allows you to create a COM Group and redirect data from it to several physical COM ports on device servers. With COM Grouping, you will be able to control multiple physical serial ports simultaneously by operating only one COM port.

The SED16 series can conveniently connect up to 16 serial devices to an Ethernet, allowing you to network your existing serial devices with only basic configuration. With SED16 series, you can both centralize the management of your serial devices, and distribute management hosts over the network. SED16 series can be used to connect different devices for remote management, each serial port operates independently to provide maximum versatility, each port can be operate in Driver, TCP Server, and TCP Client mode independently.

## Features:

1. Adopt 32 bit ARM processor
2. 16 serial ports, with support for RS-232/RS-485
3. Support 10/100M Ethernet, 2xLAN ports
4. Support 300bps-115.2Kbps
5. Support TCP, ICMP, IP, DHCP, BOOTP, DNS, SNMP V1, HTTP, SMTP, STMP, PPP, SLIP, UDP, ARP, ICMP, HTTP, TELNET and DHCP protocol

6. Support across gateway, router communication
7. Support standard TCP/IP SOCKET
8. Support Virtual serial driver access and auto connect after the network disconnect
9. Choice of configuration methods: Windows, TELNET and WEB
10. Support DIN-Rail or wall mounting installation

### Specifications:

#### Ethernet

Number of ports:2

Standard:10/100Base-T(X)

Speed:10/100M auto-sensing

Working mode: half /full duplex

Working: TCP Server, TCP Client, UDP and Real COM driver

Memory: 8M RAM, 4M flash

Electromagnetism isolate: 1.5KV

Connector: RJ45

#### Serial

Standard:RS-232/RS-485

Number of ports: 16

Signals: RS-232:DCD,RXD,TXD,DTR,GND,DSR,RTS,CTS

RS-485:Data+,Data-,GND

RS-422:TXD+,TXD-,RXD+,RXD-,GND

Parity: None, Even, Odd, Space, Mark

Data bits: 5bit, 6bit, 7bit, 8bit

Stop bits: 1, 1.5, 2

Baud rate: 300bps ~ 115.2Kbps

Flow control: RTS/CTS or XON/XOFF

Direction control: RS485 side adopt ADDC technology, auto text and control data transfer direction

Loading: RS-485/422 side support 32 nodes (customize 128 nodes) loopback

Transmission: RS-485/422 side 1200M,

RS-232 port 15M

Interface protection: 600W surge protection,

15KV ESD protection

### Software

Network protocols:

Support, TCP, ICMP, IP, DHCP, BOOTP, DNS, SNMP V1, HTTP, SMTP, SNTP, PPP, SLIP, UDP, ARP, ICMP, HTTP, TELNET and DHCP protocol

Driver support: Windows Real COM driver (Windows NT/2000, Windows XP/2003)

Configuration options: Windows, TELNET and WEB

### Power

Power input: 85-265V DC or 100-265V AC or others

Consumption: <2.5W

### Environment

Working temperature: -20° C ~ 60° C

Storage temperature: -20° C ~ 85° C

Humidity: Relative humidity 5% to 95%

## Appearance

Color: Black

1U Size

Material: Iron (housing)

The connection way may combine willfully ,serial connector can be terminal mark or RJ45 connector.

Safety: EN 60950-1

EMC: CE, FCC

GB/T 17626.2-2006 Class 4

GB/T 17626.4-2008 Class 4

GB/T 17626.5-2008 Class 4

GB/T 17626.6-2008 Class 3

EMI: EN 55022 Class A, FCC Part 15 Subpart B Class A

EMS: EN 55024

Power Line Protection:

EN 61000-4-4(EFT) Level 2,

EN 61000-4-5(Surge) Level 3

Warranty: 5 Years