ALLNET ALL-SDS102 / RS232/422/485 Modbus to Ethernet, 2x Ser

EAN CODE

4 0 3 8 8 1 6 0 6 7 6 8 5

Highlights:

- 2 RS232/422/485 switch selectable serial port
- Low Voltage range of 5~36v DC
- Data Rates range of 600~230.4kbps

Introduction of 2 ports RS232/485/422 Serial Device Servers

ALL-SDS102 is a double serial device server, which can realize transparent transmission between TCP/UDP data package and RS232/RS485/RS422 interface. The device has unique functions such as network printing, Modbus multi-host polling and watchdog mechanism. ALL-SDS102 is based on ARM processor and it is internally integrated with TCP/IP protocol. User can easily realize embedded device networking.

Features of 2 ports RS232/485/422 Serial Device Servers

- Cortex-M4 kernel,industrial working temperature range and TCPIP protocol stack.
- Auto-MDI/MDIX,RJ45 port with 10/100Mbps
- TCP Server,TCP Client,UDP Client,UDP Server and HTTPD Client work mode
- Support network printing
- Support Modbus multi-host polling
- Two ports can work independently at the same time
- Support Modbus RTU to Modbus TCP
- Can distinguish which serial port connects to the device via port number
- Support virtual serial port and provide corresponding software USR-VCOM
- Serial baud rate from 600bps to 230.4K bps;Check bit of None,Odd,Even,Mark and Space

www.allnet.de

ALLNET GmbH - Maistraße 2 - 82110 Germering - sales@allnet.de - 089 / 894 222 22
Errors and technical changes that serve the interests of progress or development of the product, are reserved.
Page 1/5

- DNS and DHCP supported
- Provide PC TCP/IP socket programming example such as VB,C++,Delphi,Android and IOS
- Built-in webpage;also can customize webpage for users
- Reload button,one key to restore default settings
- RJ45 with Link/Data indicator light,built-in isolation transformer and 2 KV electromagnetic isolation
- The global unique MAC address bought from IEEE (begin with D8-B0-4C);user can define MAC address
- Support upgrade firmware via network
- Support keepalive,rapidly detect dead links
- Support account and password,can be used to page login and network settings
- Support one channel Websocket,realize bidirectional transparent transmission between webpage and serial 0
- Two serial ports;each serial can work as rs232,rs485 or rs422;DB9 female;provide rs485/rs422 converter
- Two channel serial communication indicator: TX/RX
- Support DC adapter and 5.08-2 terminal power supply
- Support UDP broadcast function

Simple Transparent transmission

Transparent transmission means that whatever is transferred, our device plays the role of a channel and sends data to the target without modification. On-site monitoring equipment sends data to Serial Device Servers transparent data transmission terminal by itself port, the terminal CUP receives data by serial port and package data.

Various parameter setting method

Software Settings
Download settings software, search related Serial Device Servers in the LAN through the serial port server IP, name, MAC address, or the version number. Then set the parameters you need, otherwise keep the default.
Web-page Settings

1. Open your browser and inter the default IP address of the Serial Device Servers.
2. Open the login page of Serial Server, Enter the user name and password (default admin).
3. After setting parameter, Click Save and Restart, then setting will take effect.

Serial AT commands Settings
User can set parameter by module itself without going through another computer to configure. This setting method is used in the following situation: user have to configure IP address and destination IP address on site. AT command can meet the demand. After MCU connects serial server module by TTL (UART), MCU can configure setting by AT command.

Application Field of 2 ports RS232/485/422 Serial Device Servers

- Industrial data transmission, industrial automation
- security and protection monitoring, public security
- Smart home, power control, environmental monitoring, intelligent agriculture
- Door check on work attendance system, POS system, rice selling system
- Building automation system, power monitoring, self-service banking system, telecom machine room monitoring

Application of Serial Device Server

Technical Details:

System Information

Processor	Cortex-M4
Basic Frequency	120MHz
Flash	512K byte

Ethernet

Port Number	1
Interface Standard	RJ45
Rate	10/100 Mbps MDI/MDIX, auto switch between cross and direct connection
Protection	2KV electromagnetism isolation, shell insulation blocking
Network Protocol	IP, TCP, UDP, DHCP, DNS, HTTP, ARP, ICMP, Websocket, HTTPD Client
Receive Buffer	Max 16k bytes buffer

Serial

Port Number	2 (RS232/485/422*2), 2 serial ports can simultaneously work at the different working modes.
Interface Standard	RS-232: TX/RX/RTS/CTS RS-485: A+/B- RS422: TX+/TX-/RX+/RX-
Data Bits	5, 6, 7, 8
Stop Bit	1, 2
Check Bit	None, Even, Odd, Space, Mark
Baud Rate	600 bps ~ 230K bps
Flow Control	RTS/CTS/Xon/Xoff
Buffer	Send and receive 2k bytes respectively
Protection	ESD protection, anti-surge

SocketA

Transparent Transmission Mode	TCP Server/TCP Client/UDP Server/UDP Client
Supported Function	Networking printing, Modbus Gateway, USR-Cloud, self-defined registration package, self-defined network and serial heartbeat package

SocketB — TCP Client/UDP Client

Software

Virtual Serial(USR-VCOM)	Windows 2000 or higher (32 bit/64 bit)
Configuration	Built-in webpage, computer set-up software, serial command

Basic Parameter

Size	150 x 79 x 30 mm
Operating Temp.	-40 ~ 85°C
Storage Temp.	-45 ~ 105°C, 5 ~ 95% RH
Input Voltage	DC 5 ~ 36V
Working Current	95mA (aver) @ 5V 45mA (aver) @ 12V
Power	<1W

More

Certificate	CE, FCC, ROHS, KCC and WEEE pending
Accessory	12V power supply, serial line, cable, converter

Attributes

Attribute	Value
Features:	Seriel
Weight:	1 Kg
Warranty:	24 Months

Additional Images

www.allnet.de

ALLNET GmbH - Maistraße 2 - 82110 Germering - sales@allnet.de - 089 / 894 222 22
Errors and technical changes that serve the interests of progress or development of the product, are reserved.

Page 4/5

www.allnet.de

ALLNET GmbH - Maistraße 2 - 82110 Germering - sales@allnet.de - 089 / 894 222 22
Page 5/5
Errors and technical changes that serve the interests of progress or development of the product, are reserved.