Ethernet to RS-232 adapter user manual

Model: S2E232V2

Ethernet to RS-232 adapter	Package Contents:
White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 126 g	• Ethernet RS-232 adapter x 1 • A4 User manual x 1 • USB Cable x 1 • 6P Terminal Block x 1

1. Product profile: Male type of DB9 connector
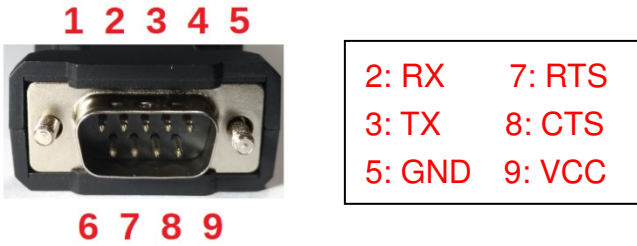
1.1 Top & Rear view:

DB9 (Male)

LED:
  Link: Red
  Status: N/A

Reset switch

Mini USB

▲ DCE
▼ DTE

Power input
5~40 VDC

RJ-45

▲ Off
▼ On

Side view:

Right side   Left side   Rear side

1.2　DB9 connector: Male

1 2 3 4 5

2: RX	7: RTS
3: TX	8: CTS
5: GND	9: VCC

6 7 8 9
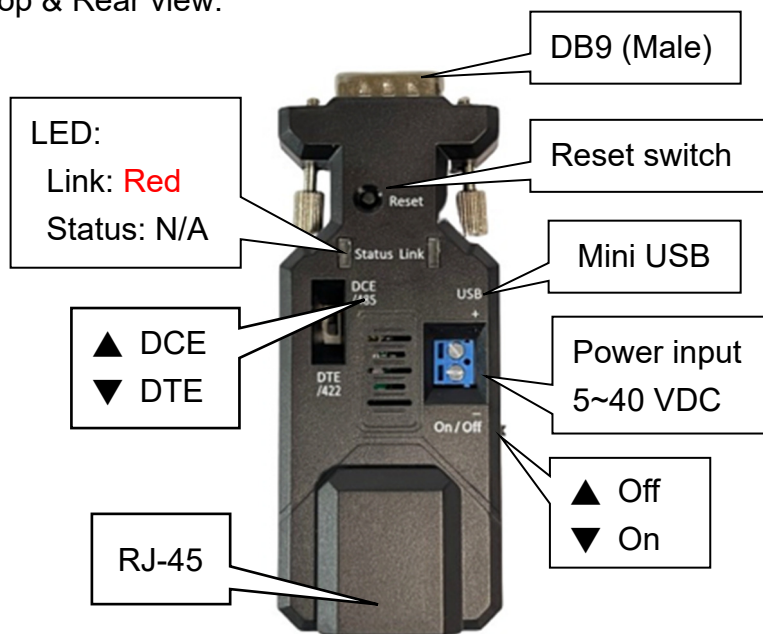
Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A			
2	RxD	Output	Input	Transmitted data
3	TxD	Input	Output	Received data
4	N/A			
5	GND			Ground
6	N/A			
7	RTS	Input	Output	Clear to send
8	CTS	Output	Input	Request to send (Default)
9	VCC			Power Input (5~40 VDC)

2. Start to use the adapter

2.1 2.2 There're three power inputs, mini USB, pin9 of DB9 or blue 2 ports block terminal. Please select one way to power the adapter. The max. voltage is 40 VDC input for all sources.

2.2 COM port default setting:
- Baud rate: 9,600 bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: none

2.3 Network default setting:
- IP: 192.168.0.4
- Socket port: 5000 (TCP server)
- Log in ID: admin
- Log in password: admin

2.4 DCE/DTE switch: DCE side. The switch will swap TX,RX,CTS,RTS of the COM port. Generally, DCE side for PC or NB setup. The user will test and switch to the correct side for the remote device.

2.5 LED indicator on RJ45 connector:

Green: Link, when ethernet physical link established, on.

Yellow: Data, when ethernet data communicate, toggle

2.6 LED indicator on the adapter:

Red: Solid on when power on the adapter

Blue: Flash when data input or output

2.7 Power supply

2.7.1 Voltage: 5~40 VDC, **Don't exceed the limit.**

2.7.2 There're 3 ways to power the adapter: Mini USB, 2P Terminal Block and pin9 of DB9, please choose one. **Don't power the adapter by more than one source.**

2.7.3 The mini USB cable is inside the standard package.

2.8 Network setting: The adapter will be connected with the PC or NB directly w/o the hub or router. Please set the local IP address as the same network segment of the default Ethernet to serial converter. The IP address mustn't be the same for both sides.

2.7.4 The DCE/DTE will swap the TX/RX or CTS/RTS.

3. RS232 Interface (Male)
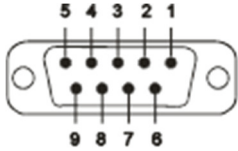
Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A			
2	TxD	Output	Input	Transmitted data
3	RxD	Input	Output	Received data
4	N/A			
5	GND			Ground
6	N/A			
7	CTS	Input	Output	Clear to send
8	RTS	Output	Input	Request to send (Default)
9	VCC			Power Input (5~27 VDC)

4. Configuration:

4.1 Web page: Execute the browser and type the default IP address, 192.168.0.3 and log in ID: admin, log in password: admin.
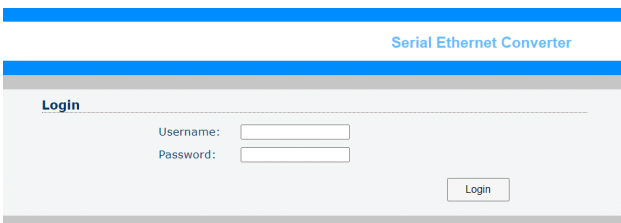
Setup page: Save every page setting and apply to take effective. The adapter will reboot after press the apply button.
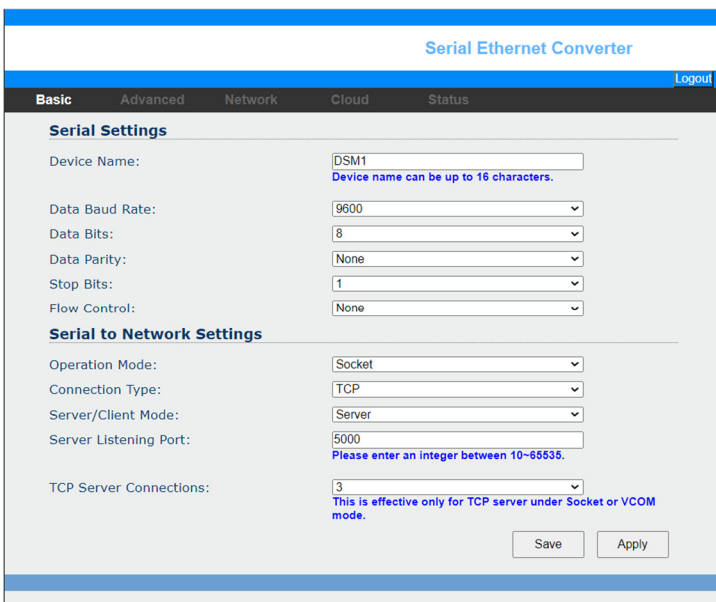
Serial Ethernet Converter

Logout

Basic   Advanced   Network   **Cloud**   Status

MQTT Setting

Server URL/HostName:

Server PORT:

MQTT Client ID:
Length should be less than or equal to 200 bytes.

Username:
Length should be less than or equal to 200 bytes.

Password:
Length should be less than or equal to 200 bytes.

Publish MQTT Topic:
Length should be less than or equal to 128 bytes.

Subscribe MQTT Topic:
Length should be less than or equal to 128 bytes.

MQTT Scheme:

MQTT_CA:

MQTT_Client_CRT:

MQTT_Client_KEY:

AWS IOT MQTT Setting

Server HostName:

Server PORT:

MQTT Client ID:
Length should be less than or equal to 200 bytes.

Publish MQTT Topic:
Length should be less than or equal to 128 bytes.

Subscribe MQTT Topic:
Length should be less than or equal to 128 bytes.

MQTT Scheme:

MQTT_CA:

MQTT_Client_CRT:

MQTT_Client_KEY:

Ali IOT MQTT Setting

Server HostName:

Server PORT:

MQTT Client ID:
Length should be less than or equal to 200 bytes.

Publish MQTT Topic:
Length should be less than or equal to 128 bytes.

Subscribe MQTT Topic:
Length should be less than or equal to 128 bytes.

MQTT Scheme:

PRODUCT_KEY:

DEVICE_NAME:

DEVICE_SECRET:

Azure Setting

Server HostName:

HUB name:

Device ID:
Length must be 11 bytes,where is serial number.

Device Keys:

Expire Time:
Length must be 10 bytes,where is timestamp in UNIX form.

Save   Apply

Remark: The cloud function is option and will be customized by the requirements.

4

- TCP Server/Client
- UDP Server/Client
- Http Client
- Https Client

5. 3rd Party Virtual COM port driver:

5.1 Eterlogic VIRTUAL SERIAL PORTS EMULATOR:

http://www.eterlogic.com/Products.VSPE.html

5.2 Eltima Virtual COM Port Driver:

https://www.virtual-serial-port.org/
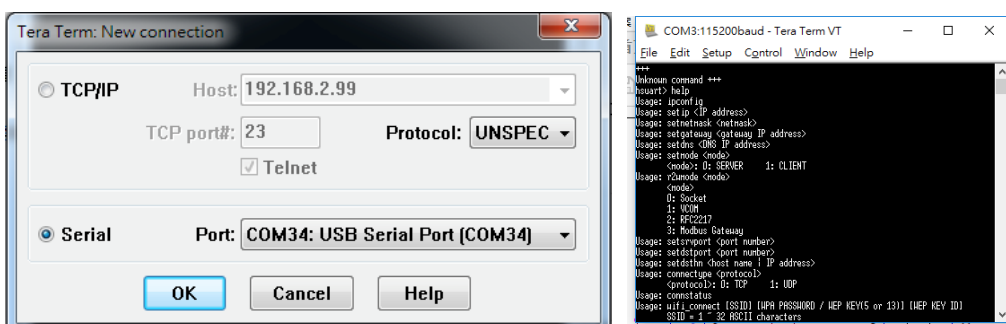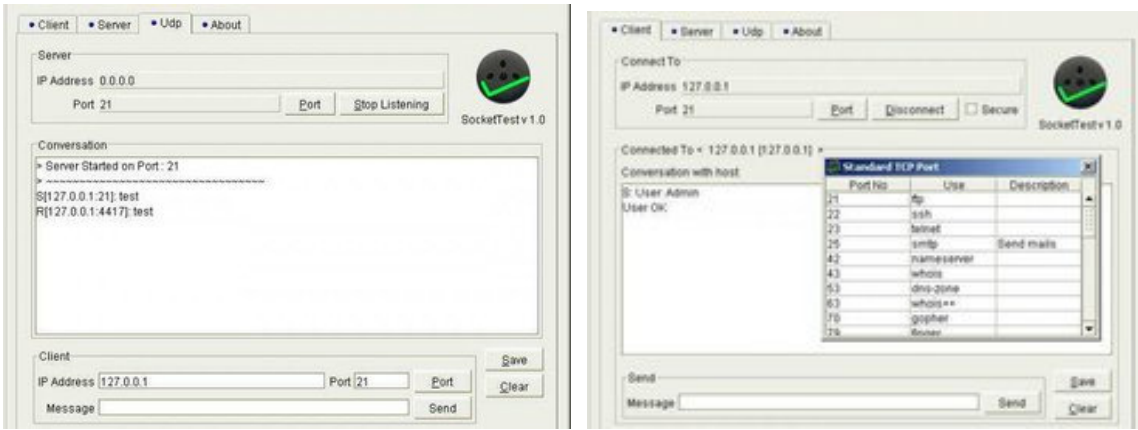
6. Test

6.1 Teraterm: for COM port or TCP server

The user will test the TCP or COM port. The COM port will be used before VCOM executed.

Download: https://osdn.net/projects/ttssh2/releases/

6.2 SocketTest: TCP server or Client testing

Download: https://sourceforge.net/projects/sockettest/

## 7. Reset button:

Press the "Reset" button over 5 seconds, the Ethernet adapter will reset to default value. The LEDs will be off for some time and then reboot to the default value. The function is the same ad the software reset.

8. One to one connection:
The two Ethernet adapters will be connected directly without access point.

TCP Server   TCP Client (Host IP is the same as the TCP server)
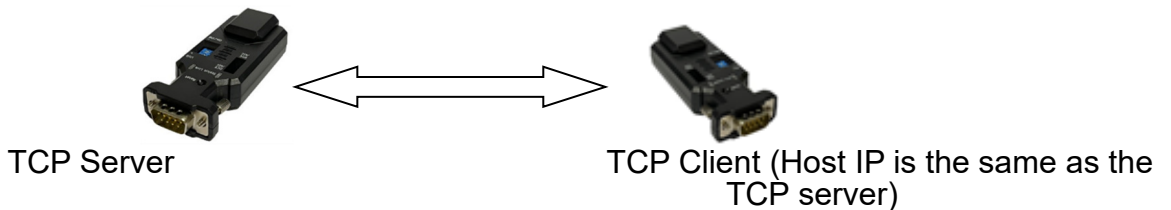
9. **Test APP Download**:
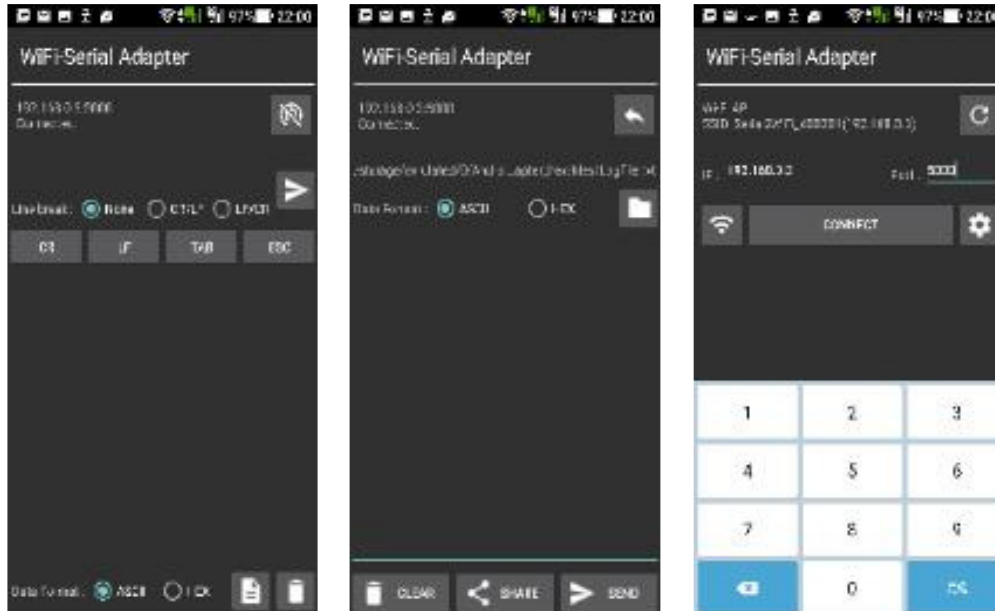If you need the sample code, please contact the supplier.

iOS: Android:

Screenshot of the test APP:

10. Customized design service:

10.1 Cloud integration

10.2 APP

10.3 Hardware

10.4 Firmware

11. The sample code of iOS or Android will be offered w/o charge for customer's integration. The version is not the same as the APP on store, it include the communication protocol w/o user interface. The designer will develop the UI and application based on the sample code. Please contact the supplier for the sample code.