



## ES-801T

10/100M to 1 port RS-232/485/422 Serial Device Server



### Overview

ES-801T series serial device server provides serial port to Ethernet port function. It converts RS-232/485/422 port to TCP/IP port, allows bidirectional data transmission between RS-232/485/422 & TCP/IP. This makes the serial device support TCP/IP function. It supports IEEE 802.3AF standard,

### Feature

CPU: 150MHz

Memory: data buffer space each port ≥ 60KB

Ethernet port: RJ45 10/100M (built-in 2KV electromagnetic isolation, surge 10/700us common mode: 2000V/differential mode 1000V) auto MDI/MDI-X

Protocol: IP, ICMP, UDP, TCP, HTTP, TELNET, DNS, DHCP

System supported: Windows /XP/2003/win7/win8/win10 32/64bit

Operating mode: VCOM, TCP SERVER, TCP CLIENT, UDP, Serial Telnet Mode, Remote Pair mode, RFC 2217

Master qty: support 4 hosts simultaneous connection

Configuration: Web browser, VCOM Utility, Telnet

Number of Serial port: 1, DB9 connector & 3.81-4PIN terminal block

Serial port protection: RS-232/485/422 surge 10/700us common mode/differential mode 0.5KV

Baud rate: 300-921600bps

Check bit: None, Odd, Even, Mark, Space

Data bit: 7, 8

Stop bit: 1, 1.5, 2

Data flow control: RTS/CTS, XON/XOFF

Power voltage: 12-36VDC

mode: 2000V/differential mode 1000V

ESD protection: full device contact 6KV, air contact 8KV

Operating current: 350mA@12V max

Power port: 5.08mm 3Pin terminal block & DC plug

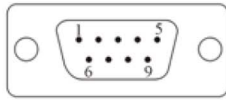
Operating temperature: -40°C ~ +85°C

Storage temperature: -40°C ~ +85°C

Relative humidity: 5% ~ 95%RH, non-condensing

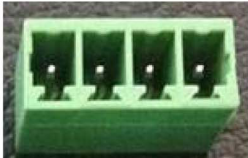
## Pin assignment

ES-801T RS-232:



| DB9 male | RS-232 |
|----------|--------|
| 1        | N/C    |
| 2        | RXD    |
| 3        | TXD    |
| 4        | N/C    |
| 5        | GND    |
| 6        | N/C    |
| 7        | RTS    |
| 8        | CTS    |

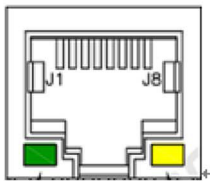
ES-801T RS-485/422:



| 3.81 terminal block | RS-485 | RS-422 | Description        |
|---------------------|--------|--------|--------------------|
| 1                   | T/R+   | TX+    | Transmit/receive + |
| 2                   | T/R-   | TX-    | Transmit/receive - |
| 3                   |        | RX+    | Receive +          |
| 4                   |        | RX-    | Receive -          |

ES-801T RJ45:

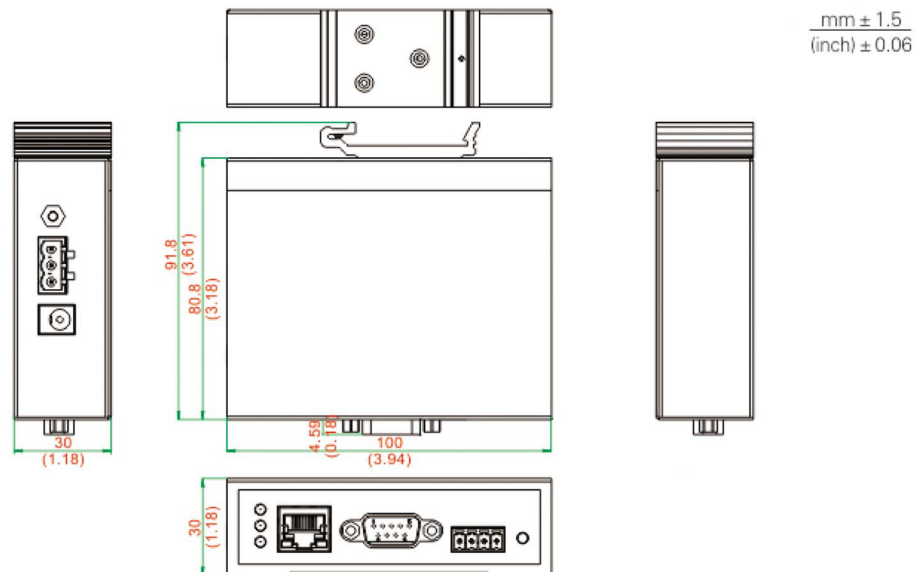
**RJ45+**



| RJ45 | EIA/TIA 568B  | Definition | Description          | EIA/TIA 568B |
|------|---------------|------------|----------------------|--------------|
| 1    | Orange, white | TX+        | Transmit +           | TX+          |
| 2    | Orange        | TX-        | Transmit -           | TX-          |
| 3    | Green, white  | RX+        | Receive +            | RX+          |
| 4    | Blue          | Data+      | Bidirectional data + | Data+        |
| 5    | Blue, white   | Data-      | Bidirectional data - | Data-        |
| 6    | Green         | RX-        | Receive -            | RX-          |
| 7    | Brown, white  | Data+      | Bidirectional data + | Data+        |
| 8    | brown         | Data-      | Bidirectional data - | Data-        |

Green is Link, yellow is ACT

## Dimension



Length 100 ±0.5mm, width 80.8±0.5mm, height 30mm±0.5mm

## Ordering

| Model   | Signal/Port |                            | Port qty |                | Protection |        |                                | Baudrate       | Environment |          | Power    |
|---------|-------------|----------------------------|----------|----------------|------------|--------|--------------------------------|----------------|-------------|----------|----------|
|         | TCP/IP      | RS-232/485/422             | TCP/IP   | RS-232/485/422 | Power      | TCP/IP | RS-232/485/422                 |                | Temperature | Humidity |          |
| ES-801T | RJ45        | DB9/3.81Pin Terminal Block | 1        | 1              | 2KV        | 2KV    | Common/differential Mode 0.5KV | 300-921.6 Kbps | -4-85% °C   | 5-95%    | DC12-36v |