

● WS-132: 2 Port Serial to Ethernet or Modbus Gateway, RS485 x1, RS232x1



Order Information:

Model No.: WS-132

● FEATURES

➤ Protocol Support

ARP, ICMP, TCP, UDP, IP, DHCP Client,
HTTP,SNMP(Optional),SNTP(Optional), Modbus TCP, Modbus RTU

➤ Support Interface

RJ-45 Port x1, 10M/100bps, 2KV, auto MDI/MDIX
RS-232 Port x1 up to 115.2Kbps, RTS/CTS H/W low control *
RS-485/RS-422 x1, up to 921.6Kbps ,Half Duplex for RS485, Full Duplex
for RS-422 *

➤ Setting

Use HTTP, Browser for Setting

➤ Security

Setup Login in Password Protect
Access Password Protect
Firmware Upgradeable
Support New Version Firmware Upgradeable

➤ Low Power Consumption

Less than 2W Power Consumption

➤ Multi Sockets

Support Multit Sockets and HTTP
All protocol working Independent and concurrently

➤ High Reliability

RTOS inside, Build in Watchdog, Power Good, Software Watchdog
Working 24Hours per day

➤ Low Cost

● GENERAL DESCRIPTIONS

WS-130 Series, included WS-131, WS-132, WS-133, WS-131B, WS-132B, WS-133B, are the Web Server using the ARM Cortex M3's family microprocessor as the Ethernet controller to be a RS232 to Ethernet controller with limit devices. It can provide you lower cost, but limited functions TCP/IP stack. WS-130 series are using the state machine to handle TCP/IP stack because of the limit resources.

WS-130 is a small size and low cost module is easy to implement an application in IA, Automatic, Security and any low data rate data transmission as a coprocessor. WS-130 supports the ARP, ICMP, TCP, UDP, IP, DHCP-

● APPLICATIONS

Data collection & security terminals:

Access Control Terminals

Security Devices

Time Recorders

Warehouse Terminals

Shop floor automation Terminals

Remote Sensors & Meters:

Power monitors

Power meters

Environmental monitors

Temperature monitors

Data loggers

Auto-ID Scanners:

Barcode Scanners

Magnetic Card Readers

Client and HTTP protocols, also support SNMP(Optional) , SNTP(Optional).

You can use the browser to setting parameters of the WS-130, or you can use the commands to setting parameters of the WS-130 series Web Server. It is easy to management in Individual or via Application software.

● **SPECIFICATION**

● **• Ethernet Interface**

| | |
|----------------------------------|----------------------------|
| Protocol | Modbus TCP |
| Number of Ports | 1 |
| Speed | 10/100 Mbps, Auto MDI/MDIX |
| Connector | 8-pin RJ45 |
| Transformer Isolation Protection | 1500Vrms |

● **• Serial Interface**

| | |
|-------------------------------|--|
| Protocol | Modbus RTU/ASCII Slave/Master |
| Number of Ports | WS-131: 1 WS-132: 2 WS-133: 3 |
| Serial Standards | WS-131: RS-232/422/485-2w, software selectable WS-132: RS232 x1, RS485-2w/422 x1 software selectable WS-133: RS232 x1, RS485-2w x2 |
| Connectors | DB9 male, Terminal Block |
| ESD Protection | 15 kV for all signals |
| RS-485 Data Direction Control | automatic data direction control |

● **• Serial Communication Parameters**

| | |
|--------------|--|
| Data Bits | 7, 8 |
| Stop Bits | 1, 2 |
| Parity | None, Even, Odd, Space, Mark |
| Flow Control | RTS/CTS, DTR/DSR (RS-232 only) |
| Baud rate | 300 bps to 921.6 kbps, option to 50 bps ~ 921.6 kbps |

● **• Serial Signals**

| | |
|--------|--|
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
|--------|--|

| | |
|--------|--------------------|
| RS-422 | Tx+, Tx-, Rx+, Rx- |
|--------|--------------------|

| | |
|-----------|--------------|
| RS-485-2w | Data+, Data- |
|-----------|--------------|

• Software

| | |
|-----------------------|---|
| Configuration Options | HTTP Web Console, Windows Setup Utility |
|-----------------------|---|

| | |
|-----------|---------------------------|
| Utilities | Setup Utility for Windows |
|-----------|---------------------------|

• Physical Characteristics

| | |
|---------|------|
| Housing | PC , |
|---------|------|

| | |
|--------|-------|
| Weight | 300 g |
|--------|-------|

| | |
|------------|------------------|
| Dimensions | Without ears: |
| | 33 x 80 x 102 mm |
| | With ears: |
| | 33 x 94 x 102 mm |

• Environmental Limits

| | |
|-----------------------|-------------------------|
| Operating Temperature | 0 to 60°C (32 to 140°F) |
|-----------------------|-------------------------|

| | |
|---------------------|-----------------------------|
| Storage Temperature | -40 to 85 °C (-40 to 185°F) |
|---------------------|-----------------------------|

| | |
|---------------------------|---------------------------|
| Ambient Relative Humidity | 5 to 95% (non-condensing) |
|---------------------------|---------------------------|

| | |
|----------|--|
| Altitude | Up to 2000 m (795 hPa), higher altitudes on demand |
|----------|--|

Note

• Power Requirements

| | |
|---------------|---------------------------|
| Input Voltage | 12 to 30 VDC, No Polarity |
|---------------|---------------------------|

| | |
|-----------------|----------------|
| Power Connector | Terminal block |
|-----------------|----------------|

| | |
|-------------------|----------------|
| Power Consumption | 110 mA @ DC24V |
|-------------------|----------------|

| | |
|-----------|-----|
| Isolation | 2KV |
|-----------|-----|

• Standards and Certifications

| | |
|-----|----|
| EMC | CE |
|-----|----|

• Reliability

MTBF (mean time between failures)

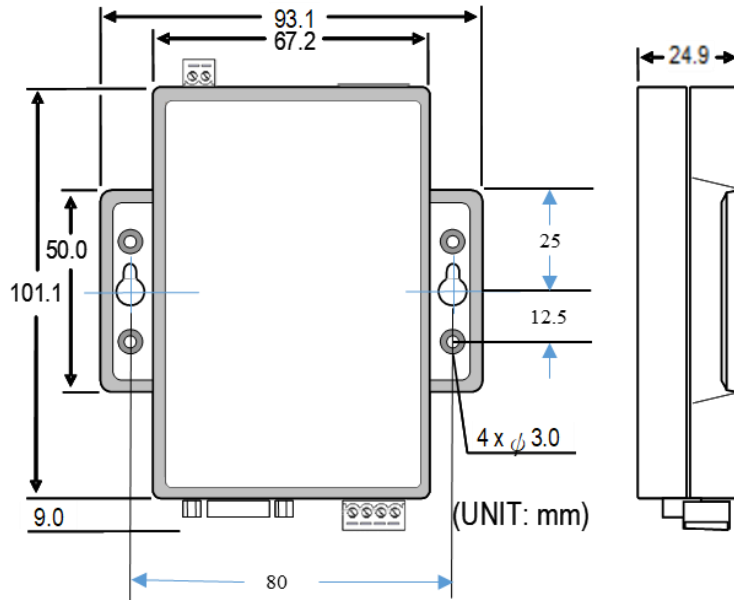
• Warranty

| | |
|-----------------|--------|
| Warranty Period | 1 year |
|-----------------|--------|

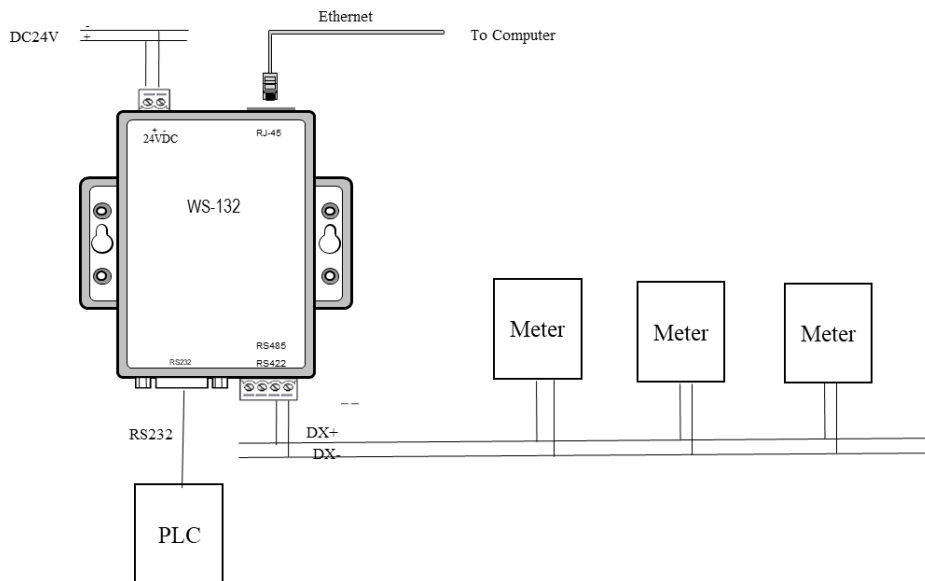
Details

See <http://www.infosystem.com.tw>

● **Dimension**



● **Connection**



● **Configuration**

Web Browser or Setup tool

● **Installation**

Wall Mount

Din Rail (Optional Din Rail Kit)