

● **WS-112: 1 Port RS485 to Ethernet Converter or Modbus Gateway**



Order Information:

Model No.: WS-112

● **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, 10/100Mbps, 2KV, auto MDI/MDIX  
RS-485 up to 921.6Kbps ,Half Duplex for RS485

➤ **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-110, WS-112, 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-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

● **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

series Web Server. It is easy to management in Individual or via Application software.

● **SPECIFICATION**

• **Ethernet Interface**

Protocol	Modbus TCP
Number of Ports	2
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	2
Serial Standards	485-2w, software selectable
Connectors	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-485-2w	Data+, Data-
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• **Software**

Configuration Options	HTTP Web Console, Windows Setup Utility
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Utilities	Setup Utility for Windows
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**• 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
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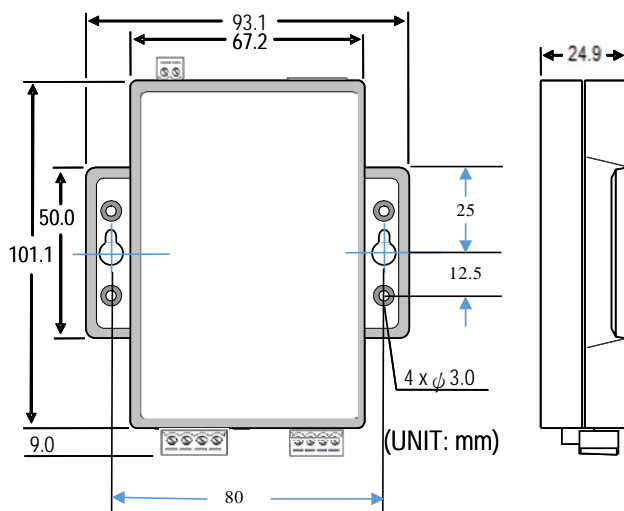
**• Reliability**

MTBF (mean time between failures)

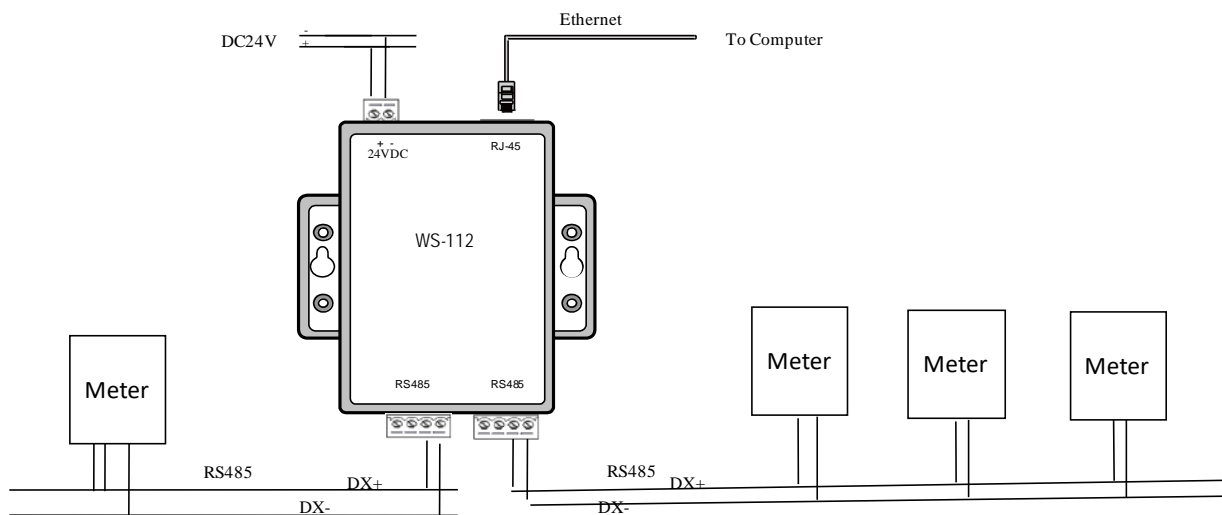
**• Warranty**

Warranty Period	1 year
Details	See <a href="http://www.infosystem.com.tw">http://www.infosystem.com.tw</a>

**● Dimension**



● **Connection**



● **Configuration**

Web Browser or Setup tool

● **Installation**

Wall Mount

Din Rail (Optional Din Rail Kit)