

Serial to Ethernet Module

User Manual

Version 1.0

Infosystem Technology Corporation, Ltd.

WM-112 Serial to Ethernet Module

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Warranty

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Product Information

A. Introduction

WM is module-based product and it can provide an ideal solution to customized embedded systems. By embedding WM Products into customized systems, you can easily implement Serial to Ethernet Converting affairs.

WM-112 uses SoC for implementing RS232 to Ethernet functions. It uses the state machine to handle TCP/IP stack and brings the user a lower cost TCP/IP stack with limited functions because of the limited resources.

WM-112 is a small size and low cost module solution. It is easy to implement applications in IA, Factory Automation, Security or any other low data rate data transmission by using it as the coprocessor. It supports ARP, ICMP, TCP, UDP, IP, DHCP-Client and even HTTP protocols. It supports 10/100M speed at Ethernet port and 115.2Kbps on Serial Port. You may use any browsers to set the parameters, or just use the commands in console mode with setup tools. With no doubt, WM-112 will bring you the easiest managements in your applications.

B. Features

Easy Configuration Setting \geq Software Setup Tool for Configuration Setting Use HTTP, IE/Netscape Browser for Setting \checkmark \triangleright Good Security Concerned Setup Login in Password Protect \checkmark Access Password Protect \checkmark Support New Version Firmware Upgradeable \succ Low cost and High Reliability \checkmark Cheap and stable ✓ Working 24Hours per day Low Power Consumption \geq ✓ Less than 1W Power Consumption Support Necessary Network Protocols \geq ARP, ICMP, TCP, UDP, IP, DHCP Client, HTTP Support Various Interfaces (Universal Set) \geq ✓ *RJ-45 x 1, 10/100M, Auto MDI/MDIX* ✓ Serial Port x 1, 115.2Kbps, RTS/CTS H/W flow control ✓ RS-232/RS-485/RS-422 Software Configurable \diamond Half Duplex for RS485 \diamond Full Duplex for RS-422 ♦ 5 bits Digital I/O (Modbus/TCP, Port 502) Three Independent Sockets \triangleright Support multi sockets for serial port and Digital I/O port All protocol working independent and concurrently

WM-112 Serial to Ethernet Module

C. Applications

- Data collection
- Security Terminals
- Access Control Terminals
- Security Devices
- Time Recorders
- Warehouse Terminals
- Shop floor automation Terminals
- Remote Sensors and Various Meters
- Power monitors
- Power meters
- Environmental monitors
- Temperature monitors
- Data loggers
- Data Acquisitions
- Auto-ID Scanners
- Barcode Scanners
- Magnetic Card Readers



Exterior

A. Top View



B. PIN Assignment

$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ \end{array} $	TPRX- TPRX+ VCC LED_LINK LED_RX LED_TX LED_SYS GND TPTX- TPTX+ SHIELD IO6	IO4 IO3 CTS RTS TXD RXD IO2 IO1 IO0 /RST IO5/RS485 ISP/SETUP	24 23 22 21 20 19 18 17 16 15 14 13	
---	--	---	--	--

WM-112 Module

Exterior

C. PIN Descriptions

PIN	Name	Туре	Description
1	TPRX-	I	The AUI receive input pairs carries the differential receives input signal from the MAU.
2	TPRX+		Same as the Pin 1, it is a positive differential input of the AUI.
3	VCC	Р	+5V DC Power
4	LED_LINK	0	Active Low, Active while the UTP cable is plugged and link
5	LED_RX	0	Blinking while receiving a Ethernet Packet.
6	LED_TX	0	Blinking while transmitting a Ethernet Packet.
7	LED_SYS	0	There are three signal states of this LED 1. Blinking Per second while normal operation 2. Blink Fast while power on do self test. 3. Low while error or restored factory default parameter
8	GND	Р	GND, DC power
9	TPTX-	0	This is AUI transmit output pair contains the differential line drivers which send Manchester encoded data to the MAU.
10	TPTX+	0	Same as Pin 9, it is the Positive differentials transmit out.
11	SHIELD GND	Р	The shield GND.
12	IO6/Hal_Duplex	I/O	Digital I/O or it is a half duplex control of the RS-485
13	ISP/SETUP	I	Active low, will cause System enter into ISP mode while power plugged in and low this pin. Or Enter into Restored factory default parameter mode
14	IO5/RS485	I/O	Digital I/O, or it is a RS-485 or RS-422 function selector.
15	/RST		Reset Pin
16	100	I/O	Digital I/O
17	101	I/O	Digital I/O
18	102	I/O	Digital I/O
19	RXD		UART Rx data in.
20	TXD	0	UART Tx data in
21	RTS	0	RS232 /RTS
22	CTS	I	RS232 /CTS
23	IO3	I/O	Digital I/O
24	IO4	I/O	Digital I/O

Step 1: Insert the CD and click the button

The Software Installation CD that came with EIO-A-200 will automatically be run after inserting it into the CD-ROM drive. Click the "Ethernet converter Setup Utilities" button will bring the installation page out,



Figure 1. Software Install CD Auto-Run Screen Shot

Step 2: Click the Link of the Page

Click the Link of the Page to run the Ethernet Converter Setup Tools Installation Software.



Figure 2. Ethernet Converter Setup Tools Page

Step 3: Press Next to Continue



Figure 3. Installation Welcome Message



Step 4: Decide the Application Directory

齃 Setup - Ethernet Converter Setup Tool	
Select Destination Location Where should Ethemet Converter Setup Tool be installed?	
Setup will install Ethemet Converter Setup Tool into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\Ethernet Converter Setup Browse	
At least 1.1 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > 0	ancel

Figure4. Decide the Application Directory



Step 5: Create the Directory if not existent

Setup - Ethernet Converter Setup Tool	_ 🗆 🗙
Select Destination Location Where should Ethemet Converter Setup Too	I be installed?
Setup will install Ethemet Converter	Setup Tool into the following folder.
To cc Folder Exists	X
C:\P C:\Program Files\Etherne already exists. Would you 是①	i Converter Setup u like to install to that folder anyway? 쟘心
At least 1.1 MB of free disk space is required	
	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 5. Create Application Directory



Step 6: Create Program's Shortcut

齃 Setup - Ethernet Converter Setup Tool	
Select Destination Location Where should Ethemet Converter Setup Tool be installed?	
Setup will install Ethemet Converter Setup Tool into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\Ethernet Converter Setup Browse	
At least 1.1 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > 0	Cancel

Figure6. Shortcut Creation

Step 7: Decide if Desktop icon needed

齃 Setup - Ethernet Converter Setup Tool	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing Ethemet Converter Setup Tool, then click Next.	
Create a desktop icon	
Create a <u>Q</u> uick Launch icon	
< <u>B</u> ack <u>N</u> ext > (Cancel

Figure7. Desktop Icon Creation

Step 8: Press Install to start installation

🛃 Setup - Ethernet Converter Setup Tool	_ 🗆 🗙
Ready to Install Setup is now ready to begin installing Ethemet Converter Setup Tool on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\Ethemet Converter Setup	<u>^</u>
Start Menu folder: Ethemet Converter Setup	
Additional tasks: Additional icons: Create a desktop icon Create a Quick Launch icon	
<u>.</u>	▼
< <u>B</u> ack [nstall]	Cancel

Figure8. Review the Installation Settings

Step 9: Process Installations

Setup - Ethernet Converter Setup Tool	
Installing Please wait while Setup installs Ethemet Converter Setup Tool on your computer.	
Creating INI entries	
	Cancel

Figure9. Installing

Step 10: Finish Installation



Figure10. Installation Finished

Software Installation B. Uninstall

Step 1: Execute Uninstall Program

Uninstall Program is located at the application directory named "Uninstall Ethernet Converter Setup". Execution of it could let the Ethernet Converter Setup Tools clearly be removed.



Figure11. Decide the Application Directory

Software Installation B. Uninstall

Step 2: Click "Yes" to process

Ethernet Converter Setup Tool Uninstall	×
Uninstall Status Please wait while Ethemet Converter Setup Tool is removed from your computer.	I
Uninstalling Ethemet Converter Setup Tool	
	Cancel

Figure12. Process Uninstall

Step 3: Finished



Figure12. Process Uninstall

A.By Browser

Step 1: Ready to login.

Setup - Microsoft Internet Explorer				- 🗆 ×
檔案(E) 編輯(E) 檢視(V) 我的最愛(A) 工具(T)	說明(出)			
🌀 上—頁 • 🛞 - 🖹 💈 🚮 🔎 搜尋	🧙 我的最爱 🥝 🔗 嫨 🕻	3 - 📃 🦓		
網址D 🙆 http://192.168.1.1/			▼ 🛃 移至 連絡	结》 📆 🔻
	Converter	· Status		
	System time elapsed	69 Sec		
	Firmware Version	VER 0.75s1		
	MAC address	4c:49:52:02:00:19		
		· · · · · · · · · · · · · · · · · · ·		
	Setup 1	.ogin		
	Password			
		_		
	Logi	<u>n</u>		
				7
🛃 完成				

A. By Browser

Step 2: Configure your parameters.

Setup - Microsoft Internet Explorer			
檔案(E) 編輯(E) 檢視(Y) 我的最愛(A) 工具①	說明(出)		2
🕞 上—頁 🔹 🕞 🖌 🗾 🛃 🌈 搜尋	☆ 我的最爱 🔗 🔗 🎍	🖸 🕣 🔜 🦓	
網址(D) 🍯 http://192.168.1.1/Setup.htm			💌 🛃 移至 🏾 連結 🎇 🔻
	Conver	ter Setup	<u> </u>
Local IP		192.168.1.1	
Subnet ma	ısk	255.255.255.0	
Gateway	Р	192.168.1.254	
DHCP cli	ent	Disable 🔽	
Remote H	lost IP	0.0.0.0	
Remote H	ost port	0	
SIO Port,	Туре	9925 TCP Server 💌	
SIO Baud	Rate	9600 • N • 8 • 1 •	
SIO Type	:	RS232	
SIO Pack	ets Gap	2 ms	
Slave Res	ponse Time out	600 ms	
Device ID)		
Setup pas	sword		
Access pa	issword		
Multi Soci	kets Arbitration Time	0 ms	
Note: SIO Port 302 is Reserved for the MODBUS/TCP.			
Update			
2 完成			

A. By Browser

Step 3: Finish and reboot.



B. By Setup Tools

Step 1: Searching the devices. Step 2: Double click the selected item.

MAC Address IP Address Device ID 4C-49-52-02-00-19 192.168.1.1	Ethernet Converter Option Help Search Device	Setup	×
	MAC Address 4C-49-52-02-00-19	IP Address 192.168.1.1	Device ID

B. By Setup Tools

Step 3: Configure and update your parameters.

WS-110A Setup (MAC: 4C-49-52-02-00-19) (VER 0.75s1)		
IP address	192.168.1.1	
Subnet mask	255.255.255.0	
Gateway IP address	192.168.1.254	
DHCP client	Disable 🗸	
Host IP address	0.0.0.0	
Host socket port	0	
Socket port of serial I/O, Type	9925 TCP Server 🗸	
Serial I/O settings (baud rate, parity, data bits, stop bits)	9600 V N V 8 V 1 V	
Type of serial I/O	RS232	
SIO InterCharacter Gap	2	
Slave Response Time Out	600 ms	
Device ID		
Setup password		
Access password		
Multi Socket Arbitration Time Period	0 ms	
Note: SIO Port 502 is Reserved for the MODBUS/TCP.		
Update		

C. By Direct Broadcast Commands

It needs broadcasting to handle all the configurations and it allows users to code their own application software.

– Command List A – User Level –

Command	Description	Notes	
	Purpose	For Broadcast search	
	Syntax	X <ma< td=""><td>gic code></td></ma<>	gic code>
Vorv	Magic code	99.130	0.83.99
	Return	AX <m< td=""><td>AC>/<ip>/<device id=""></device></ip></td></m<>	AC>/ <ip>/<device id=""></device></ip>
	E uronale	Send	X 99.130.83.99
Example	Back	AX 0.128.200.255.251.242/192.168.1.1/1	
	Purpose	Get all the parameters of the WM-112	
	Syntax	G <mac>/<ip>/<setup password=""></setup></ip></mac>	
Cora	Return	All the parameters of the WM-112	
Exampl	Example	Send	G 0.128.200.255.251.242/192.168.1.1/123
		e Back	CG for cancel
			AG <all messages=""></all>

C. By Direct Broadcast Commands

User Level: For General Users Admin Level: For Factory Default Setting

– Command List B – User Level –

Command	Description	Notes	
	Purpose	Set the parameters of WM-112	
	Syntax	S <ma< td=""><td>C>/<ip>/<password>/<parameter>/<value></value></parameter></password></ip></td></ma<>	C>/ <ip>/<password>/<parameter>/<value></value></parameter></password></ip>
C	Doturn	A for ad	ccept
5	Return	C for ca	ancel
	Example	Send	S 0.128.200.255.251.242/192.168.1.1/123/IP/192.168.1.2
		Back	A or C
	Purpose	Reboot WM-112	
	Syntax	R <mac>/<ip>/<setup password=""></setup></ip></mac>	
R	Doturn		accept
Return	CR for	cancel	
Example	Example	Send	R 0.128.200.255.251.242/192.168.1.1/123
	Back	AR or CR	

C. By Direct Broadcast Commands

User Level: For General Users Admin Level: For Factory Default Setting

– Command List C – Admin Level –

Command	Description	Notes	
	Purpose	Set MAC of WM-112 then reboot automatically	
	Syntax	M <old< td=""><td>1 MAC>/<new mac="">/<factory password=""></factory></new></td></old<>	1 MAC>/ <new mac="">/<factory password=""></factory></new>
NA	Doturn	AM for	accept
IVI	Return	CM for	cancel
	Example	Send	S 0.128.200.255.251.242/0.128.200.255.251.243/123
		Back	'A' or 'C'
	Purpose	Set IP for Factory settings	
	Syntax	I <mac>/<new ip="">/<factory password=""></factory></new></mac>	
1	Doturn	Al for a	accept
' Retuin	CI for a	cancel	
Example	Example	Send	l 0.128.200.255.251.242/192.168.1.1/123′
	Back	AR or CR	

Parameter	Description
Local IP	The IP address of the WM-112 converter on the TCP/IP network. The default Local IP address is 192.168.1.250. This address should be unique. Ask your network administrator for assistance, if in doubt.
Subnet Mask	Identifying the network class which the WM-112 converter belongs to. The default Subnet mask is: 255.255.255.0 for Class C IP. Ask your network administrator for assistance, if in doubt.
Gateway IP	The IP address of the router. The default Gateway IP address is: 192.168.1.254, Ask your network administrator for assistance, if in doubt.
DHCP Client	If this option is enabled, that means the IP address, Subnet mask and Gateway IP address of the WM-112 converter are set dynamically by the DHCP Server. If the setting cannot be got from the DHCP server successfully, the WM-112 converter will use the last setup parameters for its configuration. The possible reason of this case is that the DHCP server is shutdown or not available. Ask your network administrator for assistance, if in doubt.



Parameter	Description
SIO Port, Type	 The local port number of the WM-112 converter to be contacted by other devices. The default value is 9925. And users need to choose one communication mode for the WS-100 converter. There are four different communication modes can be selected. They are TCP Server, TCP Client, UDP Server and UDP Client. TCP Server – The WM-112 converter will operate at the Passive or the TCP listen mode to receive TCP connection requests from the remote client device. TCP Client – The WM-112 converter will operate at the Active or the TCP Active mode to request establishing a TCP connection with the remote server device.
Socket port of serial I/O, Type	 ODP Server = The WM-T12 converter will operate at the UDP Server mode to send and receive UDP datagram to/from the remote device. UDP Client – The WM-112 converter will operate at the UDP Client mode to send and receive UDP datagram to/from the remote device specified in Remote Host IP address and Remote Host Port. NOTE: SIO port number 502 is reserved for the Modbus/TCP protocol. When user connects the serial Modbus device running in Modbus/RTU Slave mode, the WM-112 converter can receive connection requests from Modbus/TCP Master device. Also when user connects the serial Modbus device running in Modbus/RTU Master mode, the WM-112 converter can connect to Modbus/TCP Slave device.

Parameter	Description
DIO Port, Type	Reserved
SIO Baud Rate	 The serial parameter settings: Baud Rate: 300 bps to 115200 Derity Name, Even, or odd
Socket I/O settings(baud	 Pality: None, Even, or odu Data Bits: 7 or 9
rate, parity, data bits, stop bits)	 Stop Bit: 1, or 2
SIO Type	 The serial interface types: RS232 RS232 with RTS/CTS control
Type of serial I/O	 RS232 with RTS/CTS/DSR/DTR control RS485 half duplex mode RS422 full duplex mode
SIO Packets Gap	In some cases, for example, if the Modbus/RTU serial protocol is used, the completion of the message packet in the input buffer is determined by a character-to-character
SIO Inter-Character Gap	timeout. The SIO Packets Gap of WM-112 defines this timeout period.

Parameter	Description
Remote Host IP	If the WM-112 converter is used in TCP client mode or UDP client mode, the Remote Host IP address must be specified to establish the connection with the designated HOST (server) only.
Remote Host Port	If the WM-112 converter is used in TCP client mode or UDP client mode, the Host Port No. must be specified. This is the port which the Remote Host IP listens for incoming data.
Slave Response Time Out	Expected Time Out for the response of slave machines
Device ID	Just Device ID for WM-112 devices

Parameter	Description
TCP Link Time Out	When this option is enabled, the TCP communication will be disconnected by the WM-112 converter if there is no further TCP activity within the given timeout value.
Command Port	The WM-112 converter supports the command mode, which user can use to setup the parameters or get the information of the converter with UDP protocol from the remote host. The default Command Port number is 65535. The command port of the WM-112 converter should be set correctly while using the command mode. Please refer to appendix 1 for further

Parameter	Description
Setup password	This password protects the Setup window of the WM-112 converter from unauthorized entry. To erase an existing password, just leave the Setup password text box blank.
Access password	If this password is configured, the remote host needs to send this access password one second periodically to the Check Status Port of the WM-112 converter; otherwise the data transfer request will not be accepted by the WM-112 converter. To erase an existing password, just leave the Access password text box blank.
Multi Sockets Arbitration Time Period	Arbitration Time period between multi sockets. Default is 0ms for single socket. And 20 ms is suggested when using multi sockets.

A. Description:

Firewall will make the program off normal, so one might choose the following solutions to Firewall program, "Disable" or "Exception".

B. Disable Firewall of Windows XP SP2.

Step 1: Execute "Windows Firewall" Execute "Windows Firewall" in Control Panel.



B. Disable Firewall of Windows XP SP2.

Step 2: Close the Firewall Choose "Close" to close firewall.

🎉 Windows 防火牆	×
一般 例外 進階	
您的電腦未受保護: 開啓 Windows 防火牆	
Windows防火牆經由阻止未授權使用者透過網際網路或網路取得對您電腦 的存取來保護您的電腦。	
⑦ 開啓 (建議選項)(0) 除了在 [例外] 索引標籤上所選擇的,這個設定封鎖所有外部來 源連線到這個電腦。	
☑ 不允許例外(型) 當您在諸如機場等較不安全的場所連線到公用網路時諸選擇 這個。Windows防火牆封鎖程式時不會通知您,將會略過[例外]索引標簽上的選擇。	
● 翻閉 (不建議使用)(P) 避免使用這個設定。關閉 Windows防火牆可能使這個電腦易受病毒和侵入者的攻擊。	
還有哪些有關 Windows 防火牆的資訊我應該知道?	
確定取消	

C. Make Program exception for Firewall

Step 1: Choose "Exception" Choose "Exception" in Firewall Program. And add on new program of Setup Tools.

名種	1服務(円):				
	ClntUsr - A	Client Inter	active User Se	rvice	
Fi	le Transfer	Protocol (F	TP) Client		
	.sna messen PnP架構	1861 1.0			
V W	indows Me	essenger			
☑遠	端協助				
口塔	5端泉田 3安及印表	捲井田			
<u> </u>	1761X-149X	MAZ 5711			
_		_			
** 16-3	程式(R)	新增連	接埠(0)	編輯(E)	刪除(1)
新唱	THE P OF CASE AND				

C. Make Program exception for Firewall

Step 2: Add on New Program and Selection Choose "Setup Tools" to make it as an exception.

Depends	č	
DivX Plan	essenger av 2-1	
DocFile Vi	ewer	
Dr.eye 200	2 譯典通	
DynaDoc I	Reader - 32Bit	
EKG		
Error Lool	CUID	
Ethemet_S	etup_Utility	
grama_IrC	omig	

C. Make Program exception for Firewall

Step 3: Allow "Accept Any Computer" Allow "Accept Any Computer" to finish exception.

變更領域	X
若要指定這個連接埠或程式對其不封鎖的電腦組,諸按下列的一個選項。	
若要指定自訂清單,請鍵入以逗點隔開的 IP 位址、子網路或兩者的清單。	
○ 任何電腦(包括在網際網路上的)(A)	
○ 只有我的網路 (子網路)(M)	
C 自訂清單(C):	
例如: 192.168.114.201,192.168.114.201/255.255.255.0	
確定 取消	

C. Make Program exception for Firewall Step 4: Finished Finish Exception.

Windows 防火置	
般例外進階	
Windows防火牆已關閉,您的電腦有受到來自諸如 內攻擊和侵入風險。我們建議您按 [一般] 索引標業 呈式和服務 (P):	網際網路之類外部來測 統後選擇[開啓]。
ACIntUsr - AClient Interactive User Service	
Ethernet_Setup_Utility	
Pile Transfer Protocol (PTP) Client	
☑ MSN Messenger 7.0	
☑ UPnP 架構	
🗹 Windows Messenger	
☑遠端協助	
□檔案及印表機共用	
新增程式(R) 新增連接埠(O) 編輯(E).	
✔ 當 Windows防火牆封鎖程式時顯示通知(N)	
r許例外狀況有哪些風險?	

Appendix

A. Application Circuit



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Copyright © 2007 **Infosystem Technology Corporation, Ltd.** No. 45, Lane 167, Dongnan St. Hsinchu, Taiwan 300, R.O.C. TEL: +886-3-562-7187 FAX: +886-3-561-1435

Service E-mail: services@infosystem.com.tw Web page URL:http://www.infosystem.com.tw