

Ethernet Pass-Through Communication

MT8000 provide Ethernet pass-through communication which allows PC to link to the PLC through the HMI. In this situation, the role of HMI is similar to a converter.



First, a virtual serial port must be created on PC. The application program on PC can communicate with PLC through this virtual serial port.

Instructions are as follows:

1. Open Project Manager and click the » Pass-through» button ;

Pass-through		
	Pass-through	

 Check the « Ethernet« radio box, and click « Install« button to install the virtual serial port driver ;

 Ethernet 	O COM port	
Virtual COM F	Port (PC <-> PLC)	
	Please install weintek virtual s	serial port driver
PLC Connecti	on Port (HMI <-> PLC)	
HMLIP	:	Stop Pass-through
		~
lu stall		Apply
	Uninstall	Арру



2. Installing driver ...

Pass-through		×
⊙ Ethernet	O COM port	
Virtual COM Por	rt (PC <-> PLC)	
	Please install weintek virtual serial port driver	
PLC Connection	n Port (HMI <-> PLC)	
HMHP:	Stop Pass-through	
Install	Installing driver, please wait	
	Exit	



3. Click « Continue Anyway«

Pass-through	
⊙ Ethernet	O COM port
Virtual COI	M Port (PC <-> PLC)
	Please install weintek virtual serial port driver
Hardw	are Installation
	The software you are installing for this hardware: Virtual Serial Port has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation
·	
	Exit



4. Virtural seriel port installation complete. A new virtual COM port number is found ;

Pass-through		×
⊙ Ethernet	○ COM port	
Virtual COM Por	rt (PC <-> PLC)	
	СОМЗ	
PLC Connection	n Port (HMI <-> PLC)	
HMHP:	127 . 0 . 0 . 1 Stop Pass-through	
	COM 1 💌 RS232 💌	
Install	Uninstall	
	Exit	



 Check out the «Computer Management« to see if the virtual COM port is successfully installed.

🖶 Computer Management		
🗐 File Action View Window H	elp	_ 8 ×
	S 🕿 🗷 🙇	
Computer Management (Local) System Tools Event Viewer Shared Folders Local Users and Groups Performance Logs and Alerts Device Manager Storage Removable Storage Disk Defragmenter Disk Management Services and Applications	ROCK_ENGXP Batteries Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk drives IDE ATA/ATAPI controllers Keyboards Network adapters Ports (COM & LPT) Communications Port (COM1) Communications Port (COM2) Printer Port (LPT1) Virtual Serial Port (COM3) Processors Sound, video and game controllers	



 Select the « Virtual Serial Port« and click right key . Select «Properties « to change COM port number ;

1	eral Port Settings Driver Details			
	Bits per second:	9600	~	
	Data bits:	8	~	
	Parity:	None	~	
	Stop bits:	1	~	
	Flow control:	None	~	
		vanced Restore I	Defaults	
Advanced Settings for C	ОМ3			?
Use FIFO buffers (r	equires 16550 compatible UART)		(4)	ОК
Select lower setting	is to correct connection problems.			Cancel
Select higher settin	gs for faster performance.			Cancer
	j	High (14	4) (14)	Defaults
Receive Buffer: Low (1	a. 18 K.			
Receive Buffer: Low (1 Transmit Buffer: Low (1			5) (16)	



Take communication between Fatek PLC and MT8000 for example, if the MT8000 HMI IP address is 192.168.1.200, the PLC parameter settings are as follows :

Device Properties
Name : FATEK FB Series
Location : Local Settings
V.1.20. FATEK FB so
PLC I/E : RS-232 PLC default station no. : 1
COM : COM1 (9600,E,7,1)
Use broadcast command
Interval of block pack (words) : 5
Max. read-command size (words) : 64 🗸
Max. write-command size (words) : 64
OK Cancel



8. In the « Pass-through« window, setup the HMI IP address : 192.168.1.200 ; Set the COM port number to COM1, which is the communication port number between MT8000 and the PLC ; The COM port type is RS232, which is the communication port type between MT8000 and the PLC ; These settings are according to the « « window (as shown above) ; Click « Apply« button.

ass-through		
 Ethernet 	O COM port	
Virtual COM F	ort (PC <-> PLC)	
	СОМЗ	
PLC Connecti	on Port (HMI <-> PLC)	
📫 нмпр	: 192.168.1.200	Stop Pass-through
_	Сом 1	✓
Install	Uninstall	Apply
		Exit



9. Open the Fatek PLC software : WinProladder ; Select « « under PLC menu ;

🔚 WinProLadder			
File Edit View Project Ladder	PLC Tool Window Help		
	 Run PLC Stop PLC 	F9 Ctrl+F9	
┣͡ + Ϝ +/ξ +ψ +ψ +ψ +/ξ +(Ĵ + ℓ]] ♠͡ - ἐ - ἐ - ἐ - ἐ - ἐ - ἐ - ἐ - ἐ - ἐ -	Editing Under Running Editing block save to PLC Abandon the editing block	Ctrl+W	
-	On-Line Off-Line	F12	
	Clear PLC Setting	•	
	Project Status Quick Control	•	

10. Set the COM port ;



On-Line				D	K
	Connection Name RS232	e		Auto Check	
	Advanced	Ad	<u>E</u> dit	Delete	
	Attribute	Data			
	Station Number Medium	1 Serial line			
	Port No.	COM1			
	Baud Rate Parity Data Bit Stop Bit	9600 E∨en parity 7 bits 1 bit	/		
			ОК	Cancel	

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11. Set the COM port number to COM3, which is the Virtual Serial Port number that you get in step 5 ;

Connection Setup			
Station Number :	1		
Port No. :	COM1	-	
	COM1	~	
Baud Rate ;	COM2		
Davitur -	COM3		
Failty.	COM4		
Data Bit :	COM5		
Stop Bit	COM6		
зюр ыс	COM7		
	COM8	~	



12. Connection succeeded ;



13. PC-HMI-PLC connection example ;



