

Ethernet Pass-Through Communication

MT8000 provides 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	



2. Check the [Ethernet] radio box, and click [Install] button to install the virtual serial port driver ;

 Ethernet 	◯ 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
		¥
Install	Uninstall	Apply



3. Installing driver ...

Pass-through	×
⊙ Ethernet OCOM port	
Virtual COM Port (PC <-> PLC)	
Please install weintek virtual serial port driver	
PLC Connection Port (HMI <-> PLC)	
HMLIP: Stop Pass-th	rough
Installing driver, please wait	Apply
	Exit



4. Click [Continue Anyway]

Pass-tl	hrough		×
⊙ Et	thernet	O COM port	
Vir	tual COM	Port (PC <-> PLC)	
	_	Please install weintek virtual serial nort driver	
	Har dwar	re Installation	
P	1	The software you are installing for this hardware: Virtual Serial Port	
		has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>) 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	



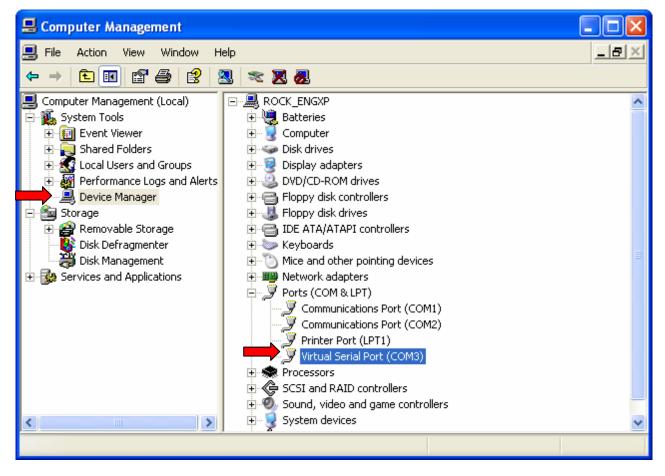
5. Virtural seriel port installation completed. A new virtual COM port number is found ;

Ŗ	ass-through		
	⊙ Ethernet	◯ COM port	
	Virtual COM Por	rt (PC <-> PLC)	
		СОМЗ]
	PLC Connection	n Port (HMI <-> PLC)	
	HMLIP:	127 . 0 . 0 . 1 Stop Pass-through	
		COM 1 💌 RS232 💌	
	Install	Uninstall Apply	
		Exit	



6. Check out the [Computer Management] to see if the virtual COM port is

successfully installed.





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

		Bits per second:	9600		~	
			-			
		Data bits:	8		×	
		Parity:	None		~	
		Stop bits:	1		~	
		Flow control:	None		~	
dvanced Settings fo	rs (requires 16550 compat	ible UART)			4 📥	
Select lower set	tings to correct connectio	n problems.			÷ —	Car
	attings for faster performan	ce.				Def
Select higher se	(4)			High (14)	(14)	LDer
Select higher se Receive Buffer: Low	v[1] ···	э				



 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
PLC type : FATEK FB Series
V.1.20, FATEK_FB.so
PLC I/F : 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



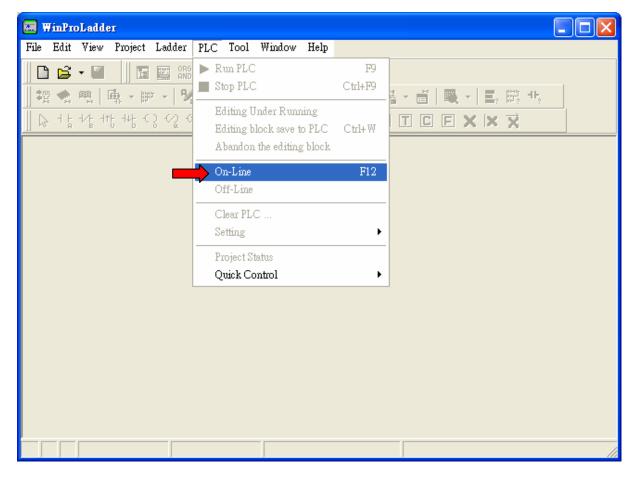
9. In the [Pass-through] window, setup the HMI IP address : 192.168.1.200 ; Set the COM port number to COM1, which is the communication port number between MT8000 and the PLC ; The COM port type is RS232, which is the communication port type between MT8000 and the PLC ; These settings are according to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

Pass-through		
⊙ Ethernet	○ COM port	
Virtual COM Po	ort (PC <-> PLC)]
	СОМЗ	
PLC Connectio	on Port (HMI <-> PLC)	
HMUP:	192 . 168 . 1 . 200 Stop Pass-through	
	СОМ 1 RS232	
Install	Uninstall Apply	
	Exit	



10. Open the Fatek PLC software : WinProladder ; Select [On-Line] under PLC

menu;





11. Set the COM port ;

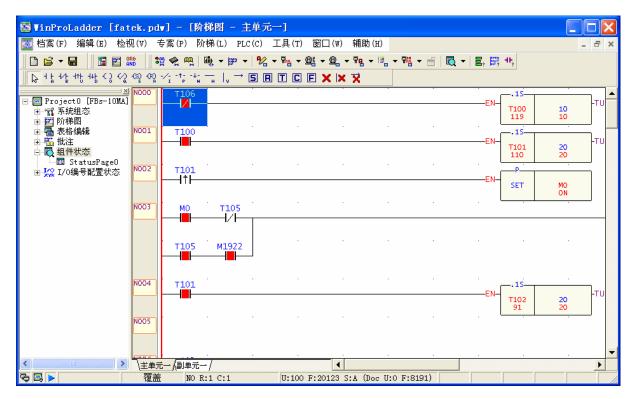
On-Line				
	Connection Name RS232	9		Auto Check
	Advanced		<u>E</u> dit	Delete
	Attribute	Data		
	Station Number	1		
	Medium Port No.	Serial line COM1		
	Baud Rate Parity Data Bit Stop Bit	9600 Even parity 7 bits 1 bit		
			ОК	Cancel

12. 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		
Dovit r	COM3		
Parity:	COM4		
Data Bit :	COM5		
Stop Dit	COM6		
Stop Bit	COM7		
	COM8	~	



13. Connection succeeded ;





14. PC-HMI-PLC connection example ;

