

Mitsubishi FX5U - ASCII Mode (Ethernet)

Supported Series: Mitsubishi FX5U ethernet module Website: <u>http://www.mitsubishi-automation.com</u>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi FX5U - ASCII M		
PLC I/F	Ethernet		
Port no.	Set identically to the PLC		Adviced to set port no. to 4999
PLC sta. no.	255		
Network number	0	0~999	

Onlin	e	simulator	YES	5	
		_	 		

[Remote Password Setting]

Set a remote password and a target connection in the engineering tool, and write the data to the CPU module.

Navigation Window => [Parameter] => [Remote Password] => [Remote Password Setting] Screen

			System Para	mete	r Settings			
Cellular Da	ta Network	Printer/Bac	kup Server	Tin	ne Sync./DST	e-Mail	Reci	pe Database
Device	Model	General	System Setti	ng	Remote	Security	Exten	ded Memory
Device list:								What's my IP?
			Device	e Setti	ings			× Station N
Loca	Nar	me : Mitsubishi F	X5U - ASCII Mode	e (Etherr	net)			D
			Device					
			IP Addre	ss Set	ttings			
	Remote	IP address Port no. Password Setting Password	: 192 . 168 : 4999 ✓ Enable : 1234	. 1	. 111			_

					PLC Conn	ectior	ו Guide
Navigation 7	× P Modu	ule Parameter 485 Serial Port 🗙 📳 Module P	arameter Etherr	net Port			🕈 🖣
□ Ē + □□ 🇱 All 🔹	Setting :	Remote Password Setting					
 Project Module Configuration Regram FB/FUN 	Input t	Password					~
🖪 🚺 Label		No. Product Name		Intelligent Module No.	Module Conditions		
🗉 🚟 Device		1 CPU Module (Built-in Ethernet Function)	¥		Detail Setting]	
🔳 🥵 Parameter		2	*				
🥵 System Parameter		3	¥				
🚍 🛃 FX5UCPU		4	~				
🛃 CPU Parameter		5	~				
🔳 🛃 Module Parameter		6	~				
Ethernet Port		7	~				
💕 485 Serial Port		8	~				
💕 High Speed I/O							
Input Response Time		Remote Password Setting					
Analog Input		Set the password which authenticated the access (con	nection) from exter	mal devices.			
Analog Output		[Caution]					
Memory Card Parameter		If a name other than the one for CPU is set as a prod	uct name, unable t	to open a project in the version	is earlier than Version 1.065T.		^
Module Information							
Gia Remote Password			Req	uired Settings (Not Set	/ Already Set)	
				Clear	OK Cance	el 👘	~
	Item List	Find Result Ch	ec <u>k</u>	Restore the Default	Settings		
						Apply	

PLC Setting:

Communication Data Code	ASCII (X, Y OCT)
*ASCII (X V HEX) not supported	

*ASCII (X,Y HEX) not supported.

[Ethernet Configuration]

To connect PLC with multiple HMIs, Port No. must be set.

In GX WORK 3, the setting steps are: Project -> Parameter -> FX5UCPU -> Module Parameter -> Ethernet Port -> Setting Item -> External Device Configuration -> Detailed Setting

Ľ1				Et	hernet C	onfiguratio	n (Built-in Ethe	ernet Port)		_ 🗆 🗙
i Etł	ner <u>n</u> et	Config	guration <u>E</u> dit <u>V</u> iew Cl	ose with Disc <u>a</u> rding	the Setting	g Close with <u>F</u>	Reflecting the Sett	ing		
	Module List ×									
										Ethernet Selection Find Module M 4 🕨
				Commission Pro-		Fixed Buffer	PLO	c	ensor/Devic	== 9↓ 9= == ☆ 1 ☆ 1 ☆ ×
		No.	Model Name	Method	Protocol	Send/Receiv e Setting	IP Address	Port No.	MAC Address	Ethernet Device (General) Ethernet Device (COGNEX)
			Host Station				192.168.1.240			COGNEX Vision System
	S	1	SLMP Connection Module	SLMP	TCP		192.168.1.240	4999		Ethernet Device (Panasonic Industria
	S	2	SLMP Connection Module	SLMP	TCP		192.168.1.240	4998		Laser Displacement Sensor
	ŝ	3	SLMP Connection Module	SLMP	TCP		192.168.1.240	4997		
	ŝ	4	SLMP Connection Module	SLMP	TCP		192.168.1.240	4996		
	<								>	
	_		Connection Connection	Connection Conne	ection					
			No.1 No.2	No.3 No	.4					
Ho	st Statio	m								
Co 4	nnected	l Count:								
1			SLMP SLMP	SLMP SLI	мр					
			SLMP Conn SLMP Conn ection Modu le le	SLMP Conn SLMP ection Modu ection le le	Conn Modu e					
			<						>	



Import Tags:

GX Works3 Export Tags:

1. Project -> Label -> Global Label -> Global, right click on the mouse -> Export to File



2. Export to XML File -> Excute.

	Export to File
<u>^</u>	Export label information to the specified file. O Export to <u>C</u> SV File. (Exclude the assignment device of structures.)
	Export to XML File. (Include the assignment device of structures and structure arrays.)
	Caution - It may take several minutes to export if a number of labels are included. <u>Manual</u>



EasyBuilder Pro Import Tags:

1. After setting the [System Parameters] and creating the driver, click [Import Tags].

Cellular Data Network Tin			e Sync./DS	T	e-Mail	FTP		
Device	Model	Genera	ral System		Remote	Security	Extended	Memory
evice lis	:						W	at's my IP
		Name	Location	Device Ty	ype	Interface	I/F Protocol	Station I
4 Loca	HMI	Local HMI	Local	oMT3092	X (1024 x 768)	-	-	0
<	lew HMI .	New	Device/Serve	ey	D-	ete	Settings	>
<	lew HMI	New l	Device/Serv	ex	De	ete	Settings	

2. Select the **.XML** file, then select the tag you want to import.

	Address tag name	 Address mode 	address	Comment	
-	B_FF	Bit	B-OFF		
-	BitArr_M20[0][0][0]	Bit	M-20		
-	BitArr_M20[0][0][1]	Bit	M-21		
-	BitArr_M20[0][0][2]	Bit	M-22		
-	BitArr_M20[0][1][0]	Bit	M-23		
<	BitArr_M20[0][1][1]	Bit	M-24		
-	BitArr_M20[0][1][2]	Bit	M-25		
✓	BitArr_M20[0][2][0]	Bit	M-26		
-	BitArr_M20[0][2][1]	Bit	M-27		
✓	BitArr_M20[0][2][2]	Bit	M-28		
✓	BitArr_M20[1][0][0]	Bit	M-29		
✓	BitArr_M20[1][0][1]	Bit	M-30		
<	BitArr_M20[1][0][2]	Bit	M-31		
-	BitArr_M20[1][1][0]	Bit	M-32		
✓	BitArr_M20[1][1][1]	Bit	M-33		
-	BitArr_M20[1][1][2]	Bit	M-34		
✓	BitArr_M20[1][2][0]	Bit	M-35		
✓	BitArr_M20[1][2][1]	Bit	M-36		
-	BitArr_M20[1][2][2]	Bit	M-37		
-	BitArr_M20[2][0][0]	Bit	M-38		
-	BitArr_M20[2][0][1]	Bit	M-39		
	PitAre Monfolfolol	Dit	M 40		



weintek Imported tag information successfully.



Limitations:

1. Structure in structure and array in structure are not supported.

2. If TN, CN, LCN, SN and other addresses are used in the structure, three members of Contact, Coil, and Current Value will be automatically generated

3. The String type will end with 0x00. If the length is set to 16 words, then a complete string will be 17 words in length.

4. Support data type list:

Data Type	Support
Bit	V
Word [Unsigned] / Bit String [16-bit]	×
Double Word [Unsigned] / Bit String [32-bit]	×
Word [Signed]	×
Double Word [Signed]	V
FLOAT [Signle Precision]	×
Time	×
String(32)	×
Pointer	×
Timer	V
Counter	V
Long Counter	V
Retentive TImer	V



Device Address:

Bit/Word	Device type	Format	Range	Memo
В	SM	DDDD	0 ~ 9999	Special Relay
В	Х	0000	0 ~ 1777	Input Relay
В	Υ	0000	0 ~ 1777	Output Relay
В	М	DDDDD	0 ~ 32767	Internal Relay
В	L	DDDDD	0 ~ 32767	Latch Relay
В	F	DDDDD	0 ~ 32767	Annunciator
В	В	НННН	0 ~ 7FFF	Link Relay
В	TS	DDDD	0 ~ 1023	Timer Contact
В	ТС	DDDD	0 ~ 1023	Timer Coil
В	SS	DDDD	0 ~ 1023	Retentive Timer Contact
В	SC	DDDD	0 ~ 1023	Retentive Timer Coil
В	CS	DDDD	0 ~ 1023	Counter Contact
В	CC	DDDD	0 ~ 1023	Counter Coil
В	SB	НННН	0 ~ 7FFF	Special Link Relay
В	S	DDDD	0 ~ 4095	Step relay
В	D_Bit	DDDDh	0 ~ 7999F	Data Register bit
В	SD_bit	DDDDDh	0 ~ 11999F	Special register Bit
В	R_bit	DDDDDh	0 ~ 32767F	File Register Bit
В	SW_bit	HHHHh	0 ~ 7FFFF	Special Link Register Bit
В	W_bit	HHHHh	0 ~ 7FFFF	Link Register Bit
DW	LZ	D	0 ~ 1	Long Index Register
W	SD	DDDDD	0 ~ 11999	Special register
W	D	DDDD	0 ~ 7999	Data Register
W	R	DDDDD	0 ~ 32767	File Register
W	W	НННН	0 ~ 7FFF	Link Register
W	TN	DDDD	0 ~ 1023	Timer Current value
W	SN	DDDD	0 ~ 1023	Retentive Timer Current value
W	CN	DDDD	0 ~ 1023	Counter Current value
W	SW	нннн	0 ~ 7FFF	Special Link Register
W	Z	DD	0 ~ 19	Index Register



Wiring Diagram:

Ethernet cable:

