

Using IDENT M System T with Ethernet/IP

Introduction

The Pepperl+Fuchs IDENT M System T consists of two models <u>MTT3000-F180-B12-V45-MON</u>, which is a read only unit and the <u>MTT6000-F120-B12-V45</u> which is a read/write unit. Tags that can be used are MTO-xx which have an 8 byte read only number on them and the MTM-C2 which have an 8 byte read only number and 71 bytes of read/write data.

Ethernet/IP

The IDENT M System T has RS232, RS485 and Ethernet TCP/IP ports. It does not however directly support Ethernet/IP. In order to talk Ethernet/IP use the converter RTS-UP-1 unit to either convert the TCP/IP or serial data to Ethernet/IP.

<u>RTS-UP-1</u> – Converts one serial and one Ethernet device to Ethernet/IP <u>RTS-UP-4</u> – Converts four serial and four Ethernet devices to Ethernet/IP

This document will show you step by step how to read and write to the MTT devices using Ethernet/IP

Configure the MTT... devices

Set IP Address

The first thing to do is to configure the Ethernet settings of your RFID system. Here are the default parameters.

Default Ethernet Settings:	IP Address:	192.168.0.2		
	Subnet Mask:	255.255.255.0		

Put this IP address into your web browser and logon to the MTT... device. Make sure the IP address of your PC is close. For example set it to 192.168.0.1.

Authenticatio	on Required	x
?	A username and password are being requested by http://172.18.30.10. The site says: "TagMaster GEN4 Reader"	
User Name:	admin	
Password:	••••••	
	OK Cancel	
	qwerty	

Go to the Settings > System > Network tab and set the network parameters correctly as required by your network administrator.

PPEPPI	ERL+FUCHS
Start Information	Network Settings
System	DHCP: Off 💌
Passwords Date & Time	Bonjour: Off 💌
Network	Hostname: PF-10098D
Options	DynDNS username:
Applications Clone	DynDNS password:
Web Tools	DynDNS hostname:
Reboot	Values below are used when DHCP is off or no DHCP server is available.
	IP address: 172.18.30.10
	Netmask: 255.255.0.0
	Gateway:
	Primary DNS:
	Secondary DNS:
	Note: A reboot is required for these settings to take effect
	Save Settings Factory Defaults

Network configuration screen for the MTT...

After you change the IP address reboot the hardware so the settings will take affect. Reset the IP address of your PC to reconnect to it.

Configure reader

Download the <u>Configuration and diagnostic software</u> from the web site. This software will connect to the serial or Ethernet ports so that a configuration can be made. Put your new Ethernet parameters into the Settings > Port settings menu option.

DENT MT Setup and Test Program ngs Reader Setup Help		
Connect		
HEX	ASCII	Clear
	🖷 Port Settings	×
	Port IP Address	
	Baud Rate Port	
	3800	
lodes of Operation © Standard C Track Input 1 In	ut 2 Input 1 Boot	Enter Data /xx for Hex
C Enhanced C Universal	+ String	Write R4 - Mir

Setting the Network parameters to connect to an MTT... device

Close the port settings dialog box and press connect. It should say connected at the top. Press the Boot String button at bottom to verify that you have a Pepperl+Fuchs ID system connected.

NT MT Setup	o and Test Pr	ogram											_ 🗆 >
is ReaderSel	tup Help												
)isconnect	Connected to	172.18.30.10	Port 10000										
EX							ASCII			1	88	C	lear
0 28 43 29 50) 42 31 32 2D) 35 35 0D 0A (2B 46 20 49 4 56 34 35 2D 4 31 39 2E 30 3	4 45 4E 54 20 ID 4F 4E 0A 0 3 2E 31 30 00) 4D 0D 0A 41 D 20 23 39 3 D 0A 53 4D 44	D 54 54 33 30 1 32 32 33 31 1 65 73 6B 43	30 30 2D 46 20 0A 0D 31 39 38 52 34 4	31 38 30 31 38 30 \$2 31 0D 0A	(C)P+F IDENT-N MTT3000-F180-1 #912231 1180055 19.03.10 SMDeskC98R4E	И B12-V45-MC 81					
odes of Operati Standard (ion O Track	Input 1	Input 2	Input 1	Boot			S	Enter Data	/xx for Hex			
Standard (Enhanced (C Track C Universal	Input 1	Input 2	Input 1 +	Boot String			Write	Enter Data	/xx for Hex		R4	R4 💌

Reading the version information of an MTT... reader

Go to the Reader Setup > Configure Reader menu option. Configure the reader like I have suggested. Many other options are possible. Press "**Send Setup to Reader**" and look for a 0 on the previous screen. Close the window and reconnect to the reader and verify the configuration.

👼 IDENT MT Setup and Test Program		
Settings Reader Setup Help Disconnect Closed		
нех	ASCII	Configure Reader
30 0D 0D 00 00 00 00 00 00 00 00 00 00 00	0 :01415676j	Configure Reader Mode Tack Baud Rate Term Char(HEX) Handshake(HEX) 48 ReaderName RS485 Pot Mode Head Char(HEX) Heartbeat
30 30 33 31 24 24 24 24 53 45 74 68 49 50 43 39 38 52 34 42 31 4C 46 41 54 30 33 48 30 44 58 34 38 4D 30 0D	0031\$\$\$\$SEt	EthIP 4-wire 00 Fixed String Length Tags to read for LON Data+Mark Read Always
30 30 33 31 24 24 24 24 53 45 74 68 49 50 43 39 38 52 34 42 31 4C 46 41 54 30 33 48 30 44 58 34 38 4D 30 0D	0031\$\$\$\$SEt	Frequency Frequency hopping all sub-bands
30 0D	0	Send Setup to Reader Read Configuration,L Write to File (Reader Name) Load from File
Modes of Operation C Standard © Track C Enhanced © Universal Input 1 Input 2 Input 1 Boot LON + String LOFF		

Configuring an MTT... reader

Configure RTS-UP-... Ethernet/IP adapter

Load Ethernet/IP firmware

The RTS-UP unit comes with socket server firmware. If you want other firmware for industrial busses like Ethernet/IP, PROFINET, or Modbus/TCP then download this firmware from out web site and send the firmware to the unit using PortVision.

Download and install Portvision

You may have to reboot your PC to see the RTS unit. Click "Scan".

V PortVision Plus			
File Folder Device View Tools H	elp		
1 👗 🍣 🥔 🤌	🔸 🎄 🥭 🧶 .	🌝 🍤 🚯 🤘	5
t Scan Refresh Config Save	e Load Upload Reboot Web Mgr	Notes Help About E	xit
Usem	enu or toolbar to add device-specific notes in t	his area. 🔺	S can
			M
			Celuaries 10
PLUS			8
		[
Scan Results [1 of 1 online]	Device Name Model Device 21:02:AE UP-1P (5-30V)	IP Address MAC Address 172.18.30.96 00:C0:4E:21:02	Software Version Stat
r -			
			I
, For Help, press F1		∏ Sca	n Results 1 1 Ready //

Scanning for RTS-UP... devices

Download the Ethernet/IP firmware

If the Scan Results do not show a device with Ethernet/IP firmware; then highlight the device and go to the menu "Device > Upload Firmware" and update the RTS unit with the right firmware. When you install the Ethernet/IP firmware above the .bin file will be in the folder Comtrol > Ethernet/IP > Ethernetip-x.xx.bin



Loading the Ethernet/IP firmware into the RTS-UP...

Using PortVision you can also double click on the scanned unit and configure the IP Address, subnet mask, and gateway.

Tools	User Guides		
		DeviceMaster UP 1-Port (5-30VDC)	
		•••••••••••••••••••••••••••••••••••••••	
-	Detection Type : LOCAL	Device Name : Device 21:02:AF MAC Address : 00:C0:4E:21:02:A	F
	Apply Changes	Network Settings	
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	Apply Changes Undo Changes Reboot Device	Network Settings C Disable IP C DHCP IP C Static IP IP Address : 172 . 18 . 30 . 96	
	Apply Changes Undo Changes Reboot Device Save Settings to a File	Network Settings © Disable IP © DHCP IP © Static IP IP Address : 172 . 18 . 30 . 96 Subnet Mask : 255 . 255 . 0 . 0 Default Gatemanic	
	Apply Changes Undo Changes Reboot Device Save Settings to a File Load Settings from a File	Network Settings © Disable IP © DHCP IP © Static IP IP Address: 172.18.30.96 Subnet Mask: 255.255.0.0 Default Gateway: 172.18.0.52	
	Apply Changes Undo Changes Reboot Device Save Settings to a File Load Settings from a File Help	Network Settings Disable IP DHCP IP Static IP IP Address: 172.18.30.96 Subnet Mask: 255.255.0.0 Default Gateway: 172.18.0.52	

IP address configuration screen for RTS-UP...

Configure the RTS and MTT to work together

Put the IP address of the RTS-UP... unit in a web browser. You will configure the rts-up...unit here.



Go to Ethernet Device Configuration and open up socket 1. Make the configuration changes you see below. Some settings you will have to customize yourself.

Things you will need to know to make these settings:

PLC IP address PLC controller slot number(Usually 0) Control tag variable, SINT array, where the read data will be placed.

Edit Socket Port 1 Configuration

evice TCP Connection Configuration Enable: Listen: Listen: Listen: Listen: Listen: Connect To Mode: Connect IP Addross: Disconnect Mode: Disconnect Mode: Disconnect Mode: Connect To Mode: Connect To Mode: Connect To Mode: Connect To Mode: Connect Mode: Disconnect Packet ID Settings STX (Start of Transmission) Px Opend: Disconnect IP Address: STX (Start of Transmission) Tx Append: Disconnect IP Address: STX (Start of Transmission) Tx Append: Disconnect IP Address: STX (Start of Transmission) Tx Append: Disconnect IP Address: STX (Start of Transmission) Tx Append: Disconnect IP Address: PLC IP Address: Disconnect Strings STX (Start of Transmission) Tx Append: Disconnect IP Address: PLC IP Address: Disconnect IP Address: Disco			
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EtherNet/IP Settings Choose one byte suffix, carriage retu is 13 = 0D in MTT software PLC IP Address: 172.18.30.7 PLC Controller Slot Number (ControlLogix Family): 0 Maximum Rx Data Packet Size: 500 (bytes) Oversized Rx Packet Handling: Truncate Rx (To PLC) Produced Data Tag/File Name: MTTData Note: File names for SLC/PLC-S must begin with a "\$" (i.e. \$N10:0). PLC IP address Disable Non-Filtered To PLC Rx Queue: 0 (PLC-5/SLC) Tx MS Byte First: 0 Variable the data w be written to (SINT arrow)			
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Note: File names for SLC/PLC-5 must begin with a "\$" (i.e. \$N10:0). Note: File names for MicroLogix must begin with a "\$" (i.e. \$N10:0). Tx Sequence Number Checking: Disable Non-Filtered To PLC Rx Queue: (PLC-5/SLC) Rx MS Byte First: (PLC-5/SLC) Tx MS Byte First: Or arrow	Rx (To PLC) Produced Data Tag/File Name:	MTTData	
Note: File names for MicroLogix must begin with a "#" (i.e. #N10:0). Tx Sequence Number Checking: Disable Non-Filtered To PLC Rx Queue: (PLC-5/SLC) Rx MS Byte First: (PLC-5/SLC) Tx MS Byte First: variable the data w be written to (SINT arrow)	Note: File names for SLC/PLC-5 must begin with a "\$" (i.e.	\$N10:0).	PLC IP address
Tx Sequence Number Checking: Image: Checking: Disable Non-Filtered To PLC Rx Queue: Image: Checking: (PLC-5/SLC) Rx MS Byte First: Image: Checking: Checking: (PLC-5/SLC) Tx MS Byte First: Image: Checking: Checking	Note: File names for MicroLogix must begin with a "#" (i.e.	#N10:0).	
Disable Non-Filtered To PLC Rx Queue: Image: Comparison of the state of the	Tx Sequence Number Checking:		
(PLC-5/SLC) Rx MS Byte First: Image: Constraint of the state of	Disable Non-Filtered To PLC Rx Queue:		<hr/>
(PLC-5/SLC) Tx MS Byte First:	(PLC-5/SLC) Rx MS Byte First:		Variable the data will
	(PLC-5/SLC) Tx MS Byte First:		be written to (SINT array)

Port configuration screen for RTS-UP...

Once all settings have been made, choose "Submit" at bottom of page. Wait for unit to reboot.

How will you know it is working?

Go back to the web configuration screen of the RTS-UP... unit and now go to the PLC Interface Diagnostics screen. Place tag over the MTT...reader. Refresh screen and the "Messages/Responses Sent to PLC" will count up on the PLC Interface Diagnostics screen. Also at the bottom you will see "No Error Detected"

PLC Interface Diagnostics

Server Configuration Home					
Serial Device Configuration					
Ethernet Device Configuration					
Communication Statistics					
<u>Display Serial Logs</u>					

EtherNet/IP Interface Statistics	Reset Statistics	
Messages/Responses Received From PLC:	3	
Broadcasts Received From PLC:	0	
Messages/Responses Sent To PLC:	3	
Request Messages From PLC:	0	
Bad Responses to Msgs Sent To PLC:	0	
Invalid Network Path Errors:	0	
No Response From PLC Errors:	0	
Pending Request Limit Errors:	0	
Unexpected Event Errors:	0	
Unsupported CIP Request Instance Errors:	0	
Unsupported CIP Request Service Errors:	0	
Unsupported CIP Request Class Errors:	0	
Unsupported CIP Request Attribute Errors:	0	
Improper Configuration Errors:	0	
Invalid Message Data Errors:	0	
System Resource Errors:	0	
Oversized Received Data Packet Errors:	0	
Writes To Offline Ethernet Device on Socket1:	:0	
First Error Description:	No Error Detected	d

In PLC the data will also appear. (If you have trouble make sure the variable is a controller tag and an SINT array large enough to hold all of your data.

iName	value 🔻	ногсе мазк 🔹 🔻	style	Data Type		
-MTTData	{}	{}	ASCII	SINT[200]		Two byte Counter
+-MTTData[0]	'\$1D'	◀	ASCII	SINT		I wo byte Counter
+MTTData[1]	'\$00'	•	ASCII	SINT		increments on every
⊞-MTTData[2]	81	•	Decimal	SINT		new packet
⊞-MTTData[3]	'\$00'		ASCII	SINT		
⊞-MTTData[4]	'\$00'		ASCI	SINT		
⊞-MTTData[5]	'\$00'		ASCI	SINT		
⊞-MTTData[6]	'\$00'		ASCII	SINT		Two byte Length shows
±-MTTData[7]	'\$00'		ASCII	SINT		how many MTT bytes to
±-MTTData[8]	'\$00'		ASUI	SINT		follow
	'\$00'		ASCII	SINT		TOHOW
	'\$UU'		ASUI	SINT		
	14001	-		SINT		
	·\$UU·					
	·008			CINIT	_	
	·\$00			CINIT		Data
	·009			CINIT	/	
			AJCII LOOK	ONT		
•••					/	
					/	
+	1	:00'	ASCIL		SINT	
+-MTTData[68]	19	:001	ASCIL		SINT	
H-MTTD sta[69]	10	:00'			SINT	
H-MTTD sta[70]	10	:001		/	SINT	
H-MTTD-to[71]		001			CINIT	
		001			CINT	
		001	ACCIL		CINT	
		.00.	ASUI		SINT	
H-MIIData[/4]	' {	00'	ASCII		SINT	
H-MIIData[/5]		':'	ASCII		SINT	
H-MTTData[76]		'0'	ASCII		SINT	
+-MTTData[77]		'1'	ASCII		SINT	
⊕-MTTData[78]		'4'	ASCII		SINT	
庄 - MTTData[79]		11	ASCII		SINT	
±-MTTData[80]		151	ASCII		SINT	Suffix
		'6'	ASCII		SINT	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
		171	ASCIL		SINT	
+		161	ASCII		SINT	
		\$r	ASCIL		SINT	
+-MTTD ata[85]	10	:001			SINT	
	14	:001	ASCI		SINT	
	2		LAPITI .	1		

The amount of data will depend on the format of the tag and the "Fixed String Length" parameter that was used when you configured the MTT... unit. In this example I used the "Data+Mark" option. This will display all the read/write data on the tag first, then a colon(:) then the 8 byte fixed code or MARK. If an MTO read only tag was used only the :Mark would be shown because there is no read/write data available.

Writing to tags

Reading the tags is automatic. If you want to send a command to the MTT unit or write data with the MTT6000-F120-B12-V45 unit then a message instruction will be used. Use Class 74h, Instance 1(Four port units have one instance for each port), attribute 1. The length of the string should be longer then you need. The send string in this example is an SINT array with length 100.

Message Configuration - RTSMessage	×
Configuration Communication Tag	
Message Type: CIP Generic	
Service Type:Set Attribute SingleService Code:10(Hex)Class:74(Hex)Instance:1Attribute:1(Hex)	Source Element: WriteCommand[0] Source Length: 100 (Bytes) Destination New Tag
◯ Enable ◯ Enable Waiting ◯ Start	O Done Done Length: 0
 Error Code: Extended Error Code: Error Path: Error Text: 	Timed Out ፍ
ОК	Cancel Apply Help

Before writing to the tags: verify the following.

How much data do you want to write?

What is the tag format you want to use?(My example uses C0, one tag in field)

The string to send to the RTS... then on to the MTT unit needs to have a specific format. This is an example of the format when you want to write 71 bytes to an MTM tag using format C0.

Bytes 0,1 = any number you like

Bytes 2,3 = Length of bytes to follow. Always 7 more bytes then the amount of data to write to the tag

Byte 4 = write command "w"

Bytes $5,6,7 =$ Length of data to write up to 071	
Up to 019 bytes = Quarter memory	
From 020 to 071 bytes is FULL memory	
(To write mini memory tags with data from 0 to 16383 use different command	I)

Byte 8-78 = data

Byte 79-80 = Format

C0 = fastest but cannot read multiple tags in field R4 = Longer battery life and a couple tags n field

Other options also available

Byte 81 = Carriage return or decimal 13

lame 🛆	Value 🗧	Force Mask 💦 🔦	Style	Data Type	
+-WriteCommand[0]	1	-	Decimal	SINT	
+-WriteCommand[1]	0	\leftarrow	Decimal	SINT	
+-WriteCommand[2]	78		Decimal	SINT	
+-WriteCommand[3]	0		Decimal	SINT	Sequence number
⊕-WriteCommand[4]	'w'	*	ASCIL	SINT	
+-WriteCommand[5]	·0·	-	ASCII	SINT	Length to follow two byte
+-WriteCommand[6]	171	*	ASCII	SINT	
+-WriteCommand[7]	'1'		ASCII	SHNI	
+-WriteCommand[8]	'\$OO'		ASCIT	SINT	Write command
+-WriteCommand[9]	'\$00'		ASCII	SHAL	
+-WriteCommand[10]	'\$00'		ASCII	SINT	
	'\$OO'		ASCII	SINT	Length, 3 bytes
+-WriteCommand[12]	'\$OO'		ASCII	SINT	
+-WriteCommand[13]	'\$00'		ASCII	SINT	
+-WriteCommand[14]	'\$00'		ASCII	SINT	
+ WriteCommand[15]	'\$00'		ASCII	SINT	
+-WriteCommand[16]	'\$00'		ASCII	SINT	
+-WriteCommand[17]	'\$00'		ASCII	SINT	
+-WriteCommand[18]	'\$00'		ASCII	SINT	_
⊕-WriteCommand[19]	'\$00'	•	ASCII	SINT	Data
+-WriteCommand[20]	'\$00'		ASCII	SINT	
⊕-WriteCommand[21]	'\$00'		ASCII	SINT	
+-WriteCommand[22]	'\$00'		ASCII	SINT	
⊕-WriteCommand[23]	'\$00'		ASCII	SINT	
+-WriteCommand[24]	'\$00'		ASCII	SINT	
+-WriteCommand[25]	'\$00'		ASCII	SINT	
	'\$00'		ASCII	SINT	
⊕-WriteCommand[27]	'\$00'		ASCII	SINT	
	'\$00'		ASCII	SINT	
+-WriteCommand[29]	'\$00'		ASCII	SINT	
+ 	'\$00'		ASCII	SINT	
± -WriteCommand[31]	'\$00'		ASCII	SINT	
+ +-WriteCommand[32]	'\$00'		ASCII	SINT	

+	'snn'	ASCIL	SINT
+	\$00 '\$00'	ASCI	SINT
WriteCommand[35]	100 '\$NO'	ASCII	SINT
+ WriteCommand[36]	100 '\$00'	ASCII	SINT
WriteCommand[37]	100 '\$NO'	ASCII	SINT
WriteCommand[38]	100 '\$NN'	ASCII	SINT
WriteCommand[39]	100 '\$00'	ASCII	SINT
⊕-WriteCommand[40]	'\$00'	ASCII	SINT
+-WriteCommand[41]	'\$00'	ASCII	SINT
+-WriteCommand[42]	'\$00'	ASCII	SINT
+-WriteCommand[43]	'\$00'	 ASCII	SINT
+	'\$00'	ASCII	SINT
⊕-WriteCommand[45]	'\$00'	ASCII	SINT
⊕-WriteCommand[46]	'\$00'	ASCII	SINT
⊕-WriteCommand[47]	'\$00'	ASCII	SINT
⊕-WriteCommand[48]	'\$00'	ASCII	SINT
+-WriteCommand[49]	'\$00'	ASCII	SINT
±-WriteCommand[50]	'\$OO'	ASCII	SINT
±-WriteCommand[51]	'\$00'	ASCII	SINT
±-WriteCommand[52]	'\$00'	ASCII	SINT
⊕-WriteCommand[53]	'\$00'	ASCII	SINT
⊕-WriteCommand[54]	'\$00'	ASCII	SINT
+-WriteCommand[55]	'\$00'	ASCII	SINT
+-WriteCommand[56]	'\$00'	ASCII	SINT
🕂-WriteCommand[57]	'\$00'	ASCII	SINT
+-WriteCommand[58]	'\$00'	ASCII	SINT
+-WriteCommand[59]	'\$00'	 ASCII	SINT
🕂-WriteCommand[60]	'\$00'	 ASCII	SINT
⊕-WriteCommand[61]	'\$00'	 ASCII	SINT
⊕-WriteCommand[62]	'\$00'	 ASCII	SINT
⊕-WriteCommand[63]	'\$00'	 ASCII	SINT
⊕-WriteCommand[64]	'\$00'	ASCII	SINT
	'\$00'	 AŞÇII	SINT
⊕-WriteCommand[66]	'\$00'	ASCII	SINT
⊕-WriteCommand[67]	'\$00'	 ASCII	SINT
+-WriteCommand[68]	'\$00'	ASCII	SINT
⊕-WriteCommand[69]	'\$00'	ASCII	SINT
⊕-WriteCommand[70]	'\$00'	ASCII	SINT
⊕-WriteCommand[71]	'\$00'	ASCII	SINT
⊕-WriteCommand[72]	'\$00'	ASCII	SINT
⊕-WriteCommand[73]	'\$00'	ASCII	SINT
+-WriteCommand[74]	'\$00'	ASCII	SINT
+-WriteCommand[75]	'\$00'	ASCII	SINT
+-WriteCommand[76]	'\$00'	ASCII	SINT
+-WriteCommand[77]	'\$OO'	ASCII	SINT
+ WriteCommand[78]	'\$00'	ASCII	SINT
+-WriteCommand[79]	'C'	ASCI	SINT
WriteCommand[80]	·0'.	ASUI	SINT
H-WriteCommand[81]	'\$r'	ASUI	SINT

Tag Format

Carriage return

If you want to format the tag to mini memory because you only need data from 0 up to 16383 and you want the data returned as fast as possible use the command w5xxxxx<CR> where the length is 5 and the data would be 00000 up to 16383

It may take up to 15s to write to a tag. If after 15seconds you don't see your data returned in the PLC you can retry.