MGate[™] EIP3000 DF1 to EtherNet/IP Gateway User Manual

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www.moxa.com/products



MGate[™] EIP3000 DF1 to EtherNet/IP Gateway User Manual

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Welcome to the MGate EIP3000 line of DF1 to EtherNet/IP gateways. All models feature easy protocol conversion from DF1 to EtherNet/IP, and RS-232/422 ports for DF1 communication. One-port and two-port models are available.

Overview

The MGate EIP3000 is a line of protocol gateways that provides users with

- protocol conversion between DF1 and EtherNet/IP
- virtual serial port for multiple DF1 and EtherNet/IP device communications
- Windows utilities for easy setup and traffic monitoring.

Protocol conversion between DF1 and EtherNet/IP

MGate[™] EIP3000 series products can be used to connect DF1 devices and EtherNet/IP devices to provide Allen Bradley PLCs with remote maintenance capability. By supporting PCCC objects on CIP, the MGate[™] EIP3000 can communicate seamlessly with Rockwell Ethernet devices. The EIP3000 protocol gateways come with either 1 or 2 serial ports to allow users to select a suitable gateway depending on the size of the network.

ProCOM function for multiple DF1 and EtherNet/IP device communications

Each MGate[™] EIP3000 gateway supports a virtual serial port. A remote PC uses a Moxa-provided ProCOM function to connect to the EIP3000's virtual serial port. RSLinx and SCADA systems can use the virtual COM port to communicate with an EIP3000 gateway. The virtual serial port function gives RSLinx or some SCADA systems the capability to connect to multiple DF1 and EtherNet/IP devices through a protocol gateway.

Web console and Windows utilities for easy setup and traffic monitoring

A Windows utility is provided to make configuration and operation of the MGate EIP3000 as easy as possible. The utility automatically connects to all available MGate EIP3000 units on the LAN for you. Traffic monitoring functions help you troubleshoot the communication problems between DF1 and EtherNet/IP protocols by tracking items such as connection status and address translation errors.

Package Checklist

All models in the MGate EIP3000 line are shipped with the following items:

Standard Accessories

- 1 MGate EIP3000 DF1 to EtherNet/IP gateway.
- Document & software CD.
- Quick Installation Guide.
- Product warranty statement.

Optional Accessories

- DR-4524: 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input.
- DR-75-24: 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input.
- DR-120-24: 120W/5A DIN-rail 24 VDC power supply with 88 to 132 VAC/176 to 264 VAC input by switch.

NOTE

Notify your sales representative if any of the above items is missing or damaged.

Product Features

- PCCC objects for Rockwell Automation networks supported.
- 8 simultaneous EtherNet/IP clients with up to 16 simultaneous requests per client.
- Serial redirector function provided.
- ProCOM function provides virtual serial port for multiple DF1 and EtherNet/IP device communication.
- Embedded EtherNet/IP and DF1 traffic monitor.
- Redundant dual DC power inputs.
- Built-in Ethernet cascading for easy wiring.
- Configuration over Ethernet with easy-to-use Windows utility.
- Software-selectable RS-232/422 communication.
- Support SNMP v1.
- Compatible for SLC5, CompactLogix and ControlLogix PLC series, and other DF1 Full-Duplex-compliant products

This chapter provides basic instructions for installing the MGate EIP3000.

Connection Power

The unit can be powered using the AC adaptor or by connecting a power source to the terminal block, depending on the model. The following instructions are for the AC adaptor:

- 1. Plug the connector of the power adapter into the DC-IN jack on the back of the unit.
- 2. Plug the power adapter into an electrical outlet.
- 3. Follow these instructions to connect a power source to the terminal block:
- 4. Loosen or remove the screws on the terminal block.
- 5. Connect the 12–48 VDC power line to the terminal block.
- 6. Tighten the connections using the screws on the terminal block.

Note that the unit does not have an on/off switch. It automatically turns on when it receives power. The PWR LED on the top panel will glow to indicate that the unit is receiving power.

For power terminal block pin assignments, please refer to the hardware reference chapter for your model.

Connecting Serial Devices

The unit's serial port(s) are located on the back panel. There are two options for connecting serial devices, depending on the serial interface:

- You may use a DB9-to-DB9 cable to connect a serial device to the unit. Plug one end of the cable into the port on the unit's back panel and plug the other end of the cable into the device's serial port.
- You may make your own customized serial cable to connect a serial device to the unit. For the pin assignments of the unit's serial port, please refer to Chapter 6. This information can then be used to construct your own serial cable.

For serial port pin assignments, please refer to the hardware reference chapter for your model.

Connecting to a Host or the Network

A 10/100BaseT Ethernet port is located on the unit's front panel. This port is used for the unit's connection to a host or Ethernet network, as follows:

- For normal operation, use a standard straight-through Ethernet cable to connect the unit to your EtherNet/IP network.
- For initial configuration or for troubleshooting purposes, you may connect the unit directly to a PC. In this case, use a crossover Ethernet cable to connect the unit to your PC's Ethernet connector.

The unit's Link LED will light up to indicate a live Ethernet connection.

One Ethernet port can be used to connect to the network, and the other port can be used to connect to another Ethernet device.

Installing the Software

The Windows management utility is installed from the Document and Software CD. Follow the onscreen instructions after inserting the CD.

Mounting the Unit

The unit can be mounted on the wall or mounted on a DIN-Rail.

MXStudio

Moxa MXStudio is a network management suite that includes MXview, MXconfig, and N-Snap. MXstudio network management software gives you a convenient graphical representation of your Ethernet network, and allows you to configure, monitor, and diagnose Moxa networking devices. MXview provides an integrated management platform that can manage Moxa's MGate EIP3000 series as well as Ethernet switches and wireless APs, and SNMP-enabled and ICMP-enabled devices installed on subnets. MXview includes an integrated MIB complier that supports any third-party MIB. It also allows you to monitor third-party OIDs and Traps. Network and Trap components that have been located by MXview can be managed via web browsers from both local and remote sites—anytime, anywhere. For more detailed information regarding MXview, download the MXview user's manual from Moxa's website at http://www.moxa.com.

3. Hardware: EIP3170, EIP3170I

This chapter provides hardware information for the MGate EIP3170 and EIP3170I.

Panel Layout



LED Indicators

Name	Color	Function
PWR1	Red	Power is being supplied to the power input.
PWR2	Red	Power is being supplied to the power input.
		Steady on: Power is on and unit is booting up.
	Red	Blinking: Indicates an IP conflict, or DHCP or BOOTP server is not
RDY		responding properly.
KU1	Green	Steady on: Power is on and unit is functioning normally.
		Blinking: Unit is responding to software Locate function.
	Off	Power is off, or power error condition exists.
	Orange	10 Mbps Ethernet connection.
Ethernet	Green	100 Mbps Ethernet connection.
	Off	Ethernet cable is disconnected, or has a short.
	Orange	Serial port is receiving data.
P1	Green	Serial port is transmitting data.
	Off	No data is being transmitted or received through the serial port.

Dimensions



Jumpers



The DIP switches are located beneath the DIP switch panel on the side of the unit.

To add a 120 Ω termination resistor, set switch 3 to ON; set switch 3 to OFF (the default setting) to disable the termination resistor.

To set the pull high/low resistors to 150 KΩ, set switches 1 and 2 to OFF. This is the default setting.

To set the pull high/low resistors to 1 K Ω , set switches 1 and 2 to ON.

Switch 4 on the port's assigned DIP switch is reserved.



ATTENTION

Do not use the 1 K Ω pull high/low setting on the MGate EIP3000 when using the RS-232 interface. Doing so will degrade the RS-232 signals and reduce the effective communication distance.

Pin Assignments

DB9 (Male)

The MGate EIP3170 and EIP3170I use a DB9 (male) serial port for RS-232 connections to DF1 devices.



Terminal Block (RS-422)

The MGate EIP3170 and EIP3170I use a terminal block connector for RS-422 connections to DF1 devices.



Power Input, Relay Output

÷	ż	V2-	Г	'n	÷1,	-17
0	0	0	0	0	0	0

<i>c</i> h	V2+	V2-	F	t J	V1+	V1-
Shielded	DC Power	DC Power	Relay Output	Relay Output	DC Power	DC Power
Ground	Input 1	Input 1			Input 2	Input 2

DIN-Rail, Wall Mounting

There are two sliders on the back of the unit for DIN-Rail and wall mounting.

Mounting on a DIN-Rail: Pull out the bottom slider; latch the unit onto the DIN-Rail, and push the slider back in.



Mounting on the wall: Pull out both the top and bottom sliders and align the screws accordingly.



Specifications



NOTE

The latest specifications for Moxa's products can be found at <u>https://www.moxa.com</u>.

4. Hardware: EIP3270, EIP3270I

This chapter provides hardware information for the MGate EIP3270 and EIP3270I.

Panel Layout



LED Indicators

Name	Color	Function
PWR1	Red	Power is being supplied to the power input.
PWR2	Red	Power is being supplied to the power input.
		Steady on: Power is on and unit is booting up.
	Red	Blinking: Indicates an IP conflict, or DHCP or BOOTP server is not
RDY		responding properly.
KUT	Green	Steady on: Power is on and unit is functioning normally.
		Blinking: Unit is responding to software Locate function.
	Off	Power is off, or power error condition exists.
	Orange	10 Mbps Ethernet connection.
Ethernet	Green	100 Mbps Ethernet connection.
	Off	Ethernet cable is disconnected, or has a short.
	Orange	Serial port is receiving data.
P1, P2	Green	Serial port is transmitting data.
	Off	No data is being transmitted or received through the serial port.

Dimensions



Jumpers



The DIP switches are located beneath the DIP switch panel on the side of the unit.

To add a 120 Ω termination resistor, set switch 3 on the port's assigned DIP switch to ON; set switch 3 to OFF (the default setting) to disable the termination resistor.

To set the pull high/low resistors to 150 K Ω , set switches 1 and 2 on the port's assigned DIP switch to OFF. This is the default setting.

To set the pull high/low resistors to 1 K Ω , set switches 1 and 2 on the port's assigned DIP switch to ON.

Switch 4 on the port's assigned DIP switch is reserved.



ATTENTION

Do not use the 1 K Ω pull high/low setting on the MGate EIP3000 when using the RS-232 interface. Doing so will degrade the RS-232 signals and reduce the effective communication distance.

Pin Assignments

DB9 (Male)

The MGate EIP3000 uses DB9 (male) serial ports to connect Modbus RTU or ASCII devices. Each port supports two serial interfaces: RS-232 and RS-422.



Pin	RS-232	RS-422
1	DCD	TxD-
2	RxD	TxD+
3	TxD	RxD+
4	DTR	RxD-
5	GND	GND
6	DSR	-
7	RTS	-
8	CTS	-

Power Input, Relay Output



ф	V2+	V2-	F	t l	V1+	V1-
Shielded Ground	DC Power Input 1	DC Power Input 1	Relay Output	Relay Output	DC Power Input 2	DC Power Input 2

DIN-Rail, Wall Mounting

There are two sliders on the back of the unit for DIN-Rail and wall mounting.

Mounting on a DIN-Rail: Pull out the bottom slider; latch the unit onto the DIN-Rail, and push the slider back in.



Mounting on the wall: Pull out both the top and bottom sliders and align the screws accordingly.



Specifications



NOTE

The latest specifications for Moxa's products can be found at <u>https://www.moxa.com</u>.

5. Configuring the EtherNet/IP Gateway

Installing the Software

The following instructions explain how to install MGate Manager, a utility for configuring and monitoring MGate EIP3000 units over the network.

 To install MGate Manager, insert the MGate Documentation and Software CD into your PC's CD-ROM drive, and then run the following setup program to begin the installation process from the "Software" directory:

MGM_Setup_[Version]_Build_[DateTime].exe

The filename of the latest version may have the following format:

MGM_Setup_Verx.x.x_Build_xxxxxxx.exe, for example:



2. You will be greeted by the Welcome window. Click Next to continue.

🔁 Setup - MGate Manager	
	Welcome to the MGate Manager Setup Wizard
	This will install MGate Manager 1.8 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

3. When the Select Destination Location window appears, click Next to continue. You may change the destination directory by first clicking on Browse....

· · · · · · · · · · · · · · · · · · ·	
🔀 Setup - MGate Manager	
Select Destination Location Where should MGate Manager be installed?	
Setup will install MGate Manager into the following folder.	tel Denues
To continue, click Next. If you would like to select a different folder, c	lick browse.
C:\Program Files\Moxa\MGate Manager	Browse
At least 1.0 MB of free disk space is required.	
< Back Next	> Cancel

4. When the **Select Additional Tasks** window appears, click **Next** to continue. You may select **Create a desktop icon** if you would like a shortcut to MGate Manager on your desktop.

🔁 Setup - MGate Manager	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing Manager, then click Next.	MGate
Additional icons :	
Create a desktop icon	
< Back Next >	Cancel

5. Click **Install** to start copying the software files.

Setup - MGate Manager		
Ready to Install Setup is now ready to begin installing MGate	Manager on your computer.	
Click Install to continue with the installation, change any settings.	or click Back if you want to rev	view or
Destination location: C:\Program Files\Moxa\MGate Manager Additional tasks: Additional icons : Create a desktop icon	r	*
4		*
	< Back Install	Cancel

6. A progress bar will appear. The procedure should take only a few seconds to complete.

弱 Setup - MGate Manager	- • •
Installing Please wait while Setup installs MGate Manager on your computer.	
Extracting files C:\Program Files\Moxa\MGate Manager\VERSION.TXT	
	Cancel

7. A message will indicate that MGate Manager is successfully installed. You may choose to run it immediately by selecting Launch MGate Manager.



8. You may also open MGate Manager through **Start (Programs (MGate Manager (MGate Manager,** as shown below.



Starting MGate Manager

MGate Manager is a Windows-based utility that is used to configure the MGate EIP3000.

Before running MGate Manager, make sure that your PC and the MGate EIP3000 are connected to the same network. Alternatively, the MGate EIP3000 may be connected directly to the PC for configuration purposes. Please refer to Chapter 2 for more details.

You may open MGate Manager from the Windows Start menu by clicking **Start > Programs > MGate Manager > MGate Manager.** The MGate Manager window should appear as shown below.

		Model		MAC Address	IP/COM	Status	Firmware Version	
Devie	ce Identification		Device Fu	inction				
	Search		Cor	nfiguration	Load Monitor Log	ProCOM Mapping	Import	
								_
	Locate		Loi	ad Default	Diagnose	Upgrade Firmwar	e Export	٦
-								
	Language	ר	COD I	Management	Off-Line Configuration	1	Exit	

Change Language Setting

If you wish to run MGate Manager in a different language, you may click **Language** to change the language setting. A dialog box showing the available languages should appear as shown below.

La	nguage
	English.Ing
	Chinese_Simplified.lng Chinese_Traditional.lng French.lng German.lng
	Russian.lng
	Default Language OK Cancel

When you click **OK**, MGate Manager will immediately reflect your chosen language.

ATTENTION

Use "Default Language" before contacting Moxa Technical Support.

With support for multiple languages, MGate Manager is more user-friendly and accessible. However, if you need assistance from Moxa Technical Support, please change the language to "Default Language". This will prevent any misunderstandings or confusion about MGate Manager menu items and commands as our engineers assist you.

The default language is English and will only be active for the current MGate Manager session. When you open MGate Manager again, the language will revert to your original setting.

Connecting to the Unit

MGate Manager needs to connect to the unit before the unit can be configured. There are two methods to connect to the unit. **Broadcast Search** is used to find every MGate EIP3000 on the LAN. **Search by IP** attempts to connect to a specific unit by IP address, which is useful if the unit is located outside the LAN or can only be accessed by going through a router.

Broadcast Search

Click **Search** and a new Search window will pop up.

0.	Name	Model		MAC Address	IP/COM	Status	Firmware Version	
	vice Identification		Device Fur					
De	evice Identification		Device Fur	nction				
	Search		Con	figuration	Load Monitor Log	ProCOM Mappin	Imp	ort
	and the second se	1				1		
	Locate		Loa	d Default	Diagnose	Upgrade Firmwa	are Exp	ort
-		1				-		
	Language		GSD M	lanagement	Off-Line Configuration		Ex	

Select **Broadcast Search** and click **OK** to begin searching the LAN for all MGate EIP3000 units.

Search	×
Broadcast Search	
Specify IP Search	0.0.0.0
Connect through COM Port	COM1 -
	OK Cancel
Searching	×
Searching	
	Cancel

When the search is complete, every MGate EIP3000 that is found on the LAN will appear in the window with MAC address and IP address. Simply select the one that you wish to configure.

	Name	Model	MAC Address		IP/COM	Status	Firmware	e Version
	MG-EIP3170_2206	MGate EIP3170	00:90:E8:24:	70:32	192.168.127.254		Ver.1.1	Build 09061619
	vice Identification	Device Fi						
	Search		nfiguration	Lo	ad Monitor Log	ProCOM Map	ping	Import
<u> </u>								
L	Locate	Lo	ad Default		Diagnose	Upgrade Firm	ware	Export
_							_	
	Language	GSD	Management	Off-L	ine Configuration			Exit

Specify IP Address

Click Specify IP Search Address if you know the IP address of the unit and wish to connect to it directly.

Enter the unit's IP address and click **OK**.

Search	••
🔘 Broadcast Search	
Specify IP Search	192 . 168 . 35 . 194
Connect through COM Port	COM1 -
	OK Cancel

If the search is successful, the unit will be listed in MGate Manager. Right click the unit to begin configuration.

No.	Name	Model	MAC Address	IP/COM	Status	Firmware Version
01	MG-EIP3170I_703	MGate EIP3170I	00:90:E8:24:47:63	192.168.127.254		Ver.1.4 Build 17040716
•						
De	evice Identification Search	Device Function Configuratio	n Monit	tor	COM Mapping	Import
	Locate	Load Defaul	t Diagn	ose	grade Firmware	Export
ſ	Language	GSD Managem	ent Off-Line Con	Germanian		Exit



ATTENTION

If Search by IP Address fails to locate the MGate EIP3000, the IP address that you entered might be incorrect. Try doing the search again and re-entering the IP address carefully.

Another possibility is that the MGate EIP3000 is located on the same LAN as your PC, but on a different subnet. In this case, you can modify your PC's IP address and or netmask so that it is on the same subnet as the MGate EIP3000. After your PC and the MGate EIP3000 are on the same subnet, MGate Manager should be able to find the unit.

Modifying the Configuration

Once your unit is displayed in MGate Manager, select it by clicking on it. The **Configuration** button will become available. Click **Configuration** to open the configuration window.

No.	Name	Model	MAC Address	IP/COM	Status	Firmware Version
01	MG-EIP3170I_703	MGate EIP3170I	00:90:E8:24:47:63	192.168.127.254		Ver. 1.4 Build 17040716
•						
De	vice Identification	Device Function				
	Search	Configurati	ion Monit	Pr	oCOM Mapping	Import
	Locate	Load Defa	ult Dia an		grade Firmware	Export
	LOCALC	Load Dela	Diagn		grade Firmware	Export
	Language	GSD Manager	ment Off-Line Con			

Configure IP Address and Other Network Settings

The **Network** tab is where the unit's network settings are configured. You can modify the **Name, Network Configuration, IP1 Address, IP2 Address (only for 2-port model)** and the default IP1 address is 192.168.127.254, IP2 address is 192.168.127.253, **Netmask** and **Default Gateway**. You may also select a **Password** to protect the unit from unauthorized access.

Configuration			×
Ethernet Serial			OK Cancel
Network Serial Routing Pr	otocol SNMP Miscellaneous	Password	
Network Configure	Static	Confirm Password	
IP1 Address	192 . 168 . 127 . 254 0 . 0 . 0 . 0		
Netmask	255.255.255.0		
Gateway	255 . 255 . 255 . 255		

Parameter	Value	Notes				
Name	(an alphanumeric string)	You can enter a name to help you identify the				
Name		unit, such as the location, function, etc.				
	Static IP, DHCP, BootP, or	Select "Static IP" if you are using a fixed IP				
Network Configuration	DHCP/BootP	address. Select one of the other options if the IP				
	Brierybooti	address is set dynamically.				
IP1 Address	192.168.127.254	The IP (Internet Protocol) address identifies the				
II I Address	(or other 32-bit number)	server on the TCP/IP network.				
IP2 Address	192.168.127.253	The IP2 (Internet Protocol) address identifies the				
IFZ Address	(or other 32-bit number)	server on the TCP/IP network.				
Netmask	255.255.255.0	This identifies the server as belonging to a Class				
Nethask	(or other 32-bit number)	A, B, or C network.				
Cataway	255.255.255.255	This is the IP address of the router that provides				
Gateway	(or other 32-bit number)	network access outside the server's LAN.				
		You can set a password to prevent unauthorized				
		users from configuring the unit. The password will				
Password	(an alphanumeric string)	be required when anyone attempts to configure				
		the unit over the network. Modbus operation is				
		not affected by the password.				
Confirm password	(an alphanumeric string)	Re-type the password again for confirmation.				



ATTENTION

Both IP1 and IP2 all can be set manually. Since IP1 is the main IP address, please assign the IP2 address to the same network subnet as IP1. If IP2 is assigned a different network subnet from IP1, an error message will appear. To continue, click OK and set a valid IP address for IP2.

guration		×	
Etherne		OK Cancel	
Serial			
vork Serial Routing	Protocol SNMP Miscellaneous		
Name	MGate_EIP3270 Password		
Network Configure	Static Confirm Password		
IP1 Address	192 . 168 . 127 . 254		
✓ IP2 Address	10 . 60 . 112 . 30 Error: IP2 mismatch Netmask.		
Netmask	255 . 255 . 255 . 0		
Gateway	255 . 255 . 255 . 255 Warning: Gateway IP mismatch Netmask.		
ing!			
Error: IP2	mismatch Netmask.		
	確定		



ATTENTION

To erase an existing password, leave both the **New Password** and **Confirm Password** text input boxes blank. The password will be erased when you click **OK** in the bottom right corner.

Configure Serial Communication Parameters

The **Serial** tab is where each serial port's communication parameters are configured. You can configure **Baud Rate, Parity, Stop Bit, Flow Control, FIFO,** and **Interface Mode.**

Configuration							×
DB9 Male		PIN	RS-232	RS-422]		ОК
		1	DCD	DD-			Cancel
123	345	2	RiD	TrD+			
		3	TxD	RxD+			
	• • •	4	DTR	RiD-			
-		5	GND	GND]		
		6	DGR				
67	89	7	RTS				
		8	CTS				
Port 1 Baudrate Flow Control	Port 2 Baudrate Flow Control		ort 3 udrate	Flow G	ontrol	Port 4 Baudrate	Flow Control
19200 v None v	19200 🔻 None 🔹			-	-		▼
Parity FIFO	Parity FIFO	Pa	rity	FIFO		Parity	FIFO
None 🔻 Enable 🔻	None	•		-	-		• •
Stop bit Interface	Stop bit Interface	St	op bit	Interfa	ice	Stop bit	Interface
1 • RS232 •	1 • RS232 •			-	-		•
Data bits	Data bits	Da	ita bits			Data bits	
8 -	8 -			•			-
L							

Parameter	Value
Interface Mode	RS-232
Interface mode	RS-422
Baud Rate	Supports standard baudrates (bps): 1200/1800/2400/4800/7200/9600/19200/ 38400/57600/115200/230.4k/460.8k/921.6k
Parity	None, Odd, Even
Stop Bits	1, 2
Flow Control	None, DTR/DSR, RTS/CTS
UART FIFO	Enable, Disable

Set up Routing and ProCOM function

The definitions of the **Routing** tab determine how requests will be routed by the unit.



How to set Routing on the MGate EIP3000

The MGate EIP3000 decides where to forward the received requests according to its internal routing rules. The internal routing rules are set on the **Routing** page. Two kinds of routing rules can be used. The first one is forwarding each received request according to its DST. DST is the destination address of each request in PCCC protocol (DF1 application protocol). You must set up the DST of each target device first, so that the EIP3000 knows which target device to forward the request to. On the **Routing** page, this information is shown in the table on the bottom half of the page. In this table, the DF1 devices connected to EIP3000 (via serial port or ProCOM) are added automatically and assigned a default DST (EIP3170:PORT1=1, ProCOM =2, 3, 4, 5; EIP3270:PORT1=1, PORT2=2, ProCOM =3, 4, 5, 6). If you would like to connect to an EIP interface (EtherNet/IP) device, you must configure the relationship between "Node DST" and "Target Node IP" of the EIP interface device manually. For CompactLogix and ControlLogix PLCs, a slot number (Slot No.) is needed, which is the slot number of the processor in the rack; 0 is common.Use a value of -1 for SLC5 PLCs since its device does not have a slot parameter. Slot No. is supported by MGate Manager version v1.13 and successor versions.

Another routing rule is static link, which ignores the DST and directly forwards all the requests sent from a specified source device to the defined target device. You can set the source device and target device mapping on the upper half of the page.

The complete routing table is shown on the upper half of the page. This table shows which rule (by DST or static link) is used on the requests from a specified source. The default setting for EIP3270 is static link of PORT1 to PORT2, PORT2 to PORT1, PORT3(ProCOM) to PORT1, PORT4(ProCOM) to PORT2, PORT5(ProCOM) to PORT1, PORT6(ProCOM) to PORT2 and all EIP devices connect from IP1 and forward to PORT1, and all EIP devices connect from IP2 and forward to PORT2. Of course, you could use the DST rule instead of the static link rule by changing the setting manually. Notice that the EIP device can only use the static link rule since there is no DST in the EIP requests.

What is ProCOM?

ProCOM is Moxa's proprietary function which provides a virtual COM port for flexible DF1 and EtherNet/IP communication. This is an intelligent function of the Fieldbus gateway that translates the data to the correct destination through DF1 protocol.

How to set ProCOM on the MGate EIP3000

ProCOM is your best solution if your system requires using a remote PC that only supports DF1 protocol to control remote DF1 devices. It requires that your PC have a virtual COM port that supports DF1 protocol to connect to the EIP3000 via the network. With ProCOM, the EIP3000 will treat the COM port on your PC as if it were an additional serial port on the EIP3000. Before using this powerful function, you must complete ProCOM mapping.

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		ОК	Rem No. 1 2	A Mapping note IP Address Model EIP32701 EIP32701	Protocol DF1 DF1	127 . 254 Mod IP Address 192.168.127.254 192.168.127.254	el EIP3270I I Port 3 (ProCC	▼ F CC DM) 8 DM) 9	DM Of Dis Dis	fline Open able able		Add Remove
		ОК	Rem No. 1 2 3	A Mapping note IP Address Model EIP32701 EIP32701 EIP32701	Protocol DF1 DF1 DF1 DF1	127 . 254 Mod IP Address 192.168.127.254 192.168.127.254	el EIP3270I # Port 3 (ProCC # Port 4 (ProCC # Port 5 (ProCC	 F CCC MM) 8 MM) 9 MM) 10 	DM Of Dis Dis Dis	fline Open able able able		Add Remove
		ОК	Rem No. 1 2 3	A Mapping note IP Address Model EIP32701 EIP32701 EIP32701	Protocol DF1 DF1 DF1 DF1	127 . 254 Mod IP Address 192.168.127.254 192.168.127.254	el EIP3270I # Port 3 (ProCC # Port 4 (ProCC # Port 5 (ProCC	 F CCC MM) 8 MM) 9 MM) 10 	DM Of Dis Dis Dis	fline Open able able able		Add Remove
	ОК		Rem No. 1 2 3	A Mapping note IP Address Model EIP32701 EIP32701 EIP32701	Protocol DF1 DF1 DF1 DF1	127 . 254 Mod IP Address 192.168.127.254 192.168.127.254	el EIP3270I # Port 3 (ProCC # Port 4 (ProCC # Port 5 (ProCC	 F CCC MM) 8 MM) 9 MM) 10 	DM Of Dis Dis Dis	fline Open able able able		Add Remove

After finding the EIP3000 with the search function, select the EIP3000 device for which you want to set ProCOM for and then click **ProCOM Mapping** to enter the mapping page. Please refer to the above figures.

On the ProCOM mapping page, you can map up to 4 ProCOM functions to your PC's COM port. The driver will generate a virtual COM port on your PC and connect to the selected EIP3000 over the network. This means that when you send a DF1 request to ProCOM, the driver will forward your request to the EIP3000. Then the EIP3000 will forward your request to the target DF1 device according to the pre-set routing table. Similarly, when the EIP3000 receives the response from the target DF1 device, it will forward the response to ProCOM and then the application running on your PC will receive the response.

Set up Protocol

onfiguration	EtherNet/IP	DF1	ОК
	Ethernet/IP	DF1	Cancel
	(1)	(2)	
	Response time	(3) ACK time	
	(6)		
PC	N	MGate EIP3000 PLC	
Network Serial Routing Response Time-out Node Location Response Time-out	Port 1 (Port 2 ProCOM Ethernet 00-120000 ms) (Default: 3000 ms)	
DF1 Settings			
ACK Time-out		i0-30000 ms) (Default: 500 ms) tecommended value: Response Time-out / 4)	
Frame Errorr Detection	🖲 CRC16 🛛 🤅) BCC	
EIP Settings			
EIP Settings CIP Communications	Connected (Cl	ass 3) 🔘 Unconnected (UCMM)	

You can configure the options for DF1, EtherNet/IP, and CIP protocol. Response Time-out defines how much time the EIP3000 needs to wait for a response after sending a PCCC command to a DF1/EIP device. We strongly suggest that the value should be greater than ACK timeout, since it requires at least double the timeout values of DF1 ACK after the EIP3000 forwards a PCCC command and before it gets a response.

ACK timeout for DF1 settings defines how much time the EIP3000 needs to wait for an ACK after sending a DF1 message to a DF1 device. DF1 messaging supports CRC16 and BCC as the method of frame error checking.

The EIP settings define how to send a CIP message as the EIP3000 is an EIP client. The EIP3000 uses connected CIP messages as default. If your EIP device only supports unconnected messages, you can change this setting accordingly.

Set Up Miscellaneous

This page defines all other options that can not be classified. Currently, this page defines "**Auto Relay Warning**", "**Reset Button Protect**" and "**Telnet Console**". The auto relay warning includes power failure, Ethernet 1 or 2 links down to trigger relay warning. If any checked trigger condition occurs, the EIP3000 will open the circuit of the relay output and trigger the Fault LED to start blinking. Otherwise, the EIP3000 will short circuit the relay output.



Verifying Location of Unit

If you are managing multiple MGate units, you may wonder if you are configuring the correct unit in MGate Manager. You can select a unit in MGate Manager and click Locate to make that unit's "**Ready**" LED blink for a few seconds. This will tell you which physical unit corresponds with the unit that you selected.

No.	Name	Model	MAC Address	IP/COM	Status	Firmware Version
01	MG_EIP3270	MGate EIP3270I	00:90:E8:1B:7A:07	192.168.127.254		Ver. 1.4 Build 17040716
•						
De	vice Identification	Device Function				
	Search	Configuratio	Moni	tor	oCOM Mapping	Import
\leq	Locate	Load Defau	lt Diagn	ose	grade Firmware	Export

Monitoring EtherNet/IP Activity

For troubleshooting or management purposes, you can monitor the data passing through any MGate EIP3000 on the network. Data events will be logged as they pass through the gateway. Rather than simply echoing the data, MGate Manager presents the data in an intelligent, easily-understood format, with clearly designated fields including source, type, destination, contents, and more. Events can be filtered in different ways, and the complete log can be saved to a file for later analysis.

No.	Name	Model	MAC Address	IP/COM	Status	Firmware Version
01	MG_EIP3270	MGate EIP3270I	00:90:E8:1B:7A:07	192.168.127.254		Ver. 1.4 Build 17040716
•			m			
De	evice Identification	Device Function				
	Search	Configurat	ion Moni	tor Pro	COM Mapping	Import
	Locate	Load Defa	ult Diagn	Upg	grade Firmware	Export
	Language	GSD Manage	ment Off-Line Cor			Exit

Open Traffic Monitor Window

Select the unit that you wish to monitor and click **Monitor** to open the Traffic Monitor window.

Node & Direction 192.168.32.41->MG MG Port 2-> MG Port 2< MG Port 2< 192.168.32.41>MG 192.168.32.41>MG MG Port 2< MG Port 2<	Protocol EIP DF1 DF1 DF1 EIP EIP EIP	Type Command Command Emb Reply ACK Reply Command	2 192	CMD OF OF 4F	Data OF 00 00 00 A2 02 03 89 00 00 10 02 02 C0 0F 00 00 A2 02 03 89 00 10 06 10 02 C0 02 4F 00 00 00 00 00 00 10	Comment
MG Port 2> MG Port 2> MG Port 2> 192.168.32.41 <mg 192.168.32.41>MG MG Port 2></mg 	DF1 DF1 DF1 EIP EIP	Command Emb Reply ACK Reply		OF 4F	10 02 02 C0 0F 00 00 00 A2 02 03 89 00	DF1 Transmission sy
MG Port 2< MG Port 2> 192.168.32.41 <mg 192.168.32.41>MG MG Port 2></mg 	DF1 DF1 EIP EIP	Emb Reply ACK Reply		4F		DF1 Transmission sy
MG Port 2> 192.168.32.41 <mg 192.168.32.41>MG MG Port 2></mg 	DF1 EIP EIP	ACK Reply				DF1 Transmission sy
192.168.32.41 <mg 192.168.32.41>MG MG Port 2></mg 	EIP EIP	Reply				
192.168.32.41>MG MG Port 2>	EIP			4F	4F 00 00 00 00 00	
MG Port 2>				0E	0F 00 01 00 A2 02 03 89 00 00	
	DF1	Command	2	OF	10 02 02 C0 0F 00 01 00 A2 02 03 89 00	
	DF1	Emb Reply	192	4F	10 06 10 02 C0 02 4F 00 01 00 00 00 10	
MG Port 2>	DF1	ACK		128		DF1 Transmission sy
192.168.32.41 <mg< td=""><td>EIP</td><td>Reply</td><td></td><td>4F</td><td>4F 00 01 00 00 00</td><td>2. 2 . 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.</td></mg<>	EIP	Reply		4F	4F 00 01 00 00 00	2. 2 . 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
			2			
			174			DF1 Transmission sy
				4F	4E 00.02 00.00 00	bri ransmosterio, m
			2			
			-	01		DF1 Transmission sy
			192	4F	10.02 C0.02 4E 00.03 00 00 00 10.03 6B	
						DF1 Transmission sy
	EIP			4F	4F 00 03 00 00 00	
192.168.32.41>MG	EIP	Command		OF	OF 00 04 00 A2 02 03 89 00 00	
MG Port 2>	DF1	Command	2	OF	10 02 02 C0 0F 00 04 00 A2 02 03 89 00	
MG Port 2<	DF1	Emb Reply	192	4F	10 06 10 02 C0 02 4F 00 04 00 00 00 10	
MG Port 2>	DF1	ACK				DF1 Transmission sy
192.168.32.41 <mg< td=""><td>EIP</td><td>Reply</td><td></td><td>4F</td><td>4F 00 04 00 00 00</td><td></td></mg<>	EIP	Reply		4F	4F 00 04 00 00 00	
192.168.32.41>MG	EIP	Command		OF	OF 00 05 00 A2 02 03 89 00 00	
MG Port 2>	DF1	Command	2	OF	10 02 02 C0 0F 00 05 00 A2 02 03 89 00	
MG Port 2<	DF1	Emb Reply	192	4F	10 06 10 02 C0 02 4F 00 05 00 00 00 10	
MG Port 2>	DF1	ACK				DF1 Transmission sy
192 168 32 41 < MG	FIP	Renk		4F	4E 00 05 00 00 00	×
	i 192.168.32.41->MG MG Port 2-> MG Port 2-> MG Port 2-> 192.168.32.41<-MG	i 192.166.32.41->MG EIP MG Port 2> DF1 MG Port 2> DF1 MG Port 2> DF1 192.166.32.41 <mg< td=""> EIP 192.166.32.41<mg< td=""> EIP 192.166.32.41<mg< td=""> EIP MG Port 2> DF1 192.166.32.41<->MG EIP 192.166.32.41<->MG EIP 192.166.32.41<->MG EIP 192.166.32.41<->MG EIP MG Port 2> DF1 MG Port 2-> DF1</mg<></mg<></mg<>	i 192.168.32.41->MG EIP Command MG Port 2> DF1 Command MG Port 2> DF1 Emb Reply MG Port 2> DF1 ACk 192.168.32.41 <mg< td=""> EIP Reply MG Port 2> DF1 Command MG Port 2> DF1 Command MG Port 2> DF1 Command MG Port 2> DF1 Reply MG Port 2> DF1 Reply MG Port 2> DF1 Reply 192.168.32.41<->MG EIP Reply 192.168.32.41<->MG EIP Command MG Port 2> DF1 Reply 192.168.32.41<->MG EIP Command MG Port 2> DF1 Command MG Port 2-> DF1 Command <td< td=""><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>i 192.168.32.41->MG EIP Command 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 Emb Reply 192.4F 192.168.32.41<->MG EIP ACK 192.168.32.41<->MG EIP Reply 4F 4F 192.168.32.41<->MG EIP Command 2 0F MG Port 2-> DF1 ACK 0F 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 ACK 0F 0F 192.168.32.41<->MG EIP Command 2 0F 192.168.32.41<->MG EIP Reply 4F 192.168.32.41<->MG EIP Reply 4F MG Port 2-> DF1 ACK 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 Command 0F 0F 4CK 0F MG Port 2-> DF1 Command 0F</td><td>i is2.163.32.41 MG PDF1 Command OF OF</td></td<></mg<>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	i 192.168.32.41->MG EIP Command 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 Emb Reply 192.4F 192.168.32.41<->MG EIP ACK 192.168.32.41<->MG EIP Reply 4F 4F 192.168.32.41<->MG EIP Command 2 0F MG Port 2-> DF1 ACK 0F 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 ACK 0F 0F 192.168.32.41<->MG EIP Command 2 0F 192.168.32.41<->MG EIP Reply 4F 192.168.32.41<->MG EIP Reply 4F MG Port 2-> DF1 ACK 0F MG Port 2-> DF1 Command 2 0F MG Port 2-> DF1 Command 0F 0F 4CK 0F MG Port 2-> DF1 Command 0F	i is2.163.32.41 MG PDF1 Command OF OF

In the Traffic Monitor window, click **Start** to begin live monitoring of the data passing through the selected MGate EIP3000 unit.

affic Monitor	(MGate EIP32	2701 192.168.127.254)						
	C Exception of	only 🔘 Message Only						Start Stop
No. Ti	ime N	lode & Direction	Protocol	Туре	DST	CMD	Data	Comment

To stop capturing the log, press the **Stop** button.

Filter Traffic Information

By default, all events are displayed in the traffic monitor window. MGate Manager also allows the data to be filtered so only the relevant information is displayed. The filter is selected using the radio buttons and customized using the "**Filter info**" field, as follows:

Filter	Description
All	Show all traffic
Exception only	Show only exceptions
Message only	Show only traffic of PCCC communication

Save Log to File

To save the data log to a file, click **Save**. You may retrieve a saved log by clicking **Load**.

	te EIP3270I 192.168.127.25						Start	Stop
No. Time	Node & Direction	Protocol	Туре	DST	CMD	Data	Comment	
							Descious mana Neutr	
							Previous page Next	page
Load	Save							Exit

Upgrading Firmware

Firmware updates for the MGate EIP3000 are located at <u>www.moxa.com</u>. After you have downloaded the new firmware onto your PC, you can use MGate Manager to write it onto your MGate EIP3000. Select the desired unit from the list in MGate Manager and click **Upgrade Firmware** to begin the process.

No.	Name	Model		MAC Address	IP/COM	Status	Firmware Version
01	MG_EIP3270	MGate EIF	32701	00:90:E8:1B:7A:07	192, 168, 127, 254		Ver. 1.4 Build 17040716
•							,
	vice Identification		Device Function		har Dr	oCOM Mapping	Import
	Locate		Load Default	Diagn		grade Firmware	Export

The dialog boxes will guide you through the process. You will need to browse your PC for the firmware file. Make sure that it matches your model.

Upgrade Firmware		X
Firmware for MGate EIP3270/3270I		Browse
	ОК	Cancel

As the firmware is written to the unit, progress is displayed in the window.

No.	Model	MAC Address	IP/COM	Status
01	MGate EIP3270I	00:90:E8:1B:7A:07	192.168.127.254	ОК

Once the firmware has been successfully written onto the unit, click **Exit** to close the Upgrade Firmware window. MGate Manager will automatically execute a **Broadcast Search** for all MGate EIP3000 units on the LAN. Your MGate should reappear in the list of units