

Save Time on Selecting and Configuring Your Protocol Gateway



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Do you find it difficult and time-consuming to select and configure a protocol gateway?

Our MGate series of protocol gateways offers a variety of industrial protocol conversions and intuitive graphical user interfaces to make them easy for you.

Simply Select the Right Protocol Gateway

In order to integrate heterogeneous systems, it's important to identify the communication protocols and the relationship between two entities (e.g., master-slave, scanner-adapter, etc.) for selecting a protocol conversion gateway.

First, determine the main industrial Ethernet protocol your system uses. Nowadays, modern systems are Ethernet based, and the most commonly seen industrial network protocols are Modbus TCP, EtherNet/IP, and PROFINET.

Second, identify the protocol your device uses. A variety of industrial protocols, such as Modbus RTU/ASCII, PROFIBUS, DNP3, etc., are used in different devices. Some devices are serial based while others are Ethernet based; both types of devices need to be connected to your industrial Ethernet-based system.

Third, clarify the relationship between the two entities in your communication system. For example, let's take a look at a PLC and a variable frequency drive (VFD), as both use different protocols. In order for them

to communicate, you need a protocol gateway to convert communications between the PLC, operating as the master, and the VFD, acting as the slave. It's important for engineers to clarify the role for the two entities in their systems.



Once you have finished these actions, you can use our selection guide below to choose a suitable protocol gateway that matches your system.

Modbus TCP-based Systems

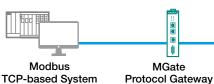
Find the gateway based on the protocol your serial-based devices use



MGate Protocol Gateways		Choose the protocol your field devices use								
		Modbus RTU/ASCII Slave	Modbus RTU/ASCII Master	PROFIBUS Slave	PROFIBUS Master	J1939	DNP3 Serial Outstation	DNP3 Serial Master	IEC 60870-5-101 Slave	IEC 60870-5-101 Master
Modbus TCP-based Systems	Modbus TCP Server	5105	MB3000/ W52x8*	5101	5111	5118	-	5109	-	5114
	Modbus TCP Client	MB3000/ W52x8*	5105	5101	5111	5118	5109	5109	5114	-

*MB3000: MB3180/MB3280/MB3480, MB3170/MB3270, MB3660 (Ethernet); W5x08: W5108/W5208 (Wi-Fi)

Find the gateway based on the protocol your Ethernet-based devices use

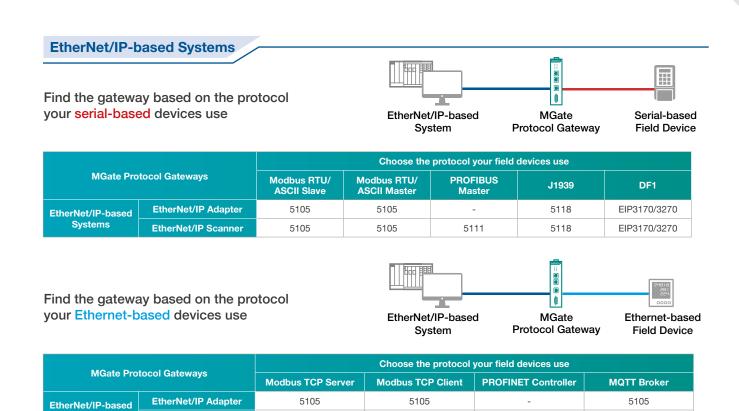




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Field Device

MGate Protocol Gateways		Choose the protocol your field devices use									
		Modbus TCP Client	EtherNet/IP Adapter	EtherNet/IP Scanner	PROFINET Controller	DNP3 TCP Outstation	DNP3 TCP Client	IEC 60870-5-104 Server	IEC 60870-5-104 Client	MQTT Broker	
Modbus TCP-based Systems	Modbus TCP Server	-	5105	5105	5103	-	5109	-	5114	5105	
	Modbus TCP Client	5109	5105	5105	5103	5109	5109	5114	-	-	



5105

5105

	-
PROFINET-based	Systems
	Oysterns

Systems

Find the gateway based on the protocol your serial-based devices use

Find the gateway based on the protocol

your Ethernet-based devices use

EtherNet/IP Scanner



5103



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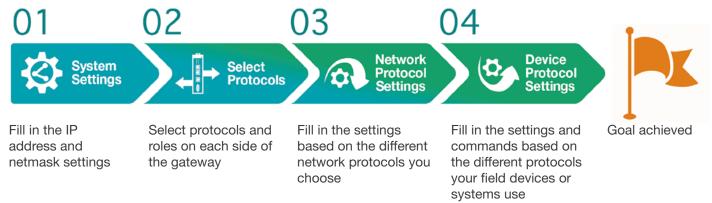
MGate Protocol Gateways		Choose the protocol your field devices use						
		Modbus RTU/ ASCII Slave	Modbus RTU/ ASCII Master	PROFIBUS Slave	PROFIBUS Master	J1939		
PROFINET-based Systems	PROFINET Controller	5103	5103	5102	5111	5118		



MC ata Dra	tocol Gateways	Choose the protocol your field devices use					
WGate Pro	liocol Galeways	Modbus TCP Server	Modbus TCP Client	EtherNet/IP Scanner			
PROFINET-based Systems PROFINET Controller		5103	5103	5103			

Easily Configure Various Protocol Gateways

Configuring protocol conversion settings is easier said than done as the initial setup of a gateway is complex. But, rest assured that Moxa can make it easy for you. We offer an intuitive graphical web interface that guides you easily through the configuration within four steps.



Watch our videos to see how easy it is to complete protocol conversions with the MGate.



Convert Modbus RTU to Modbus TCP in 60 seconds



Convert Modbus RTU to EtherNet/IP in 4 steps



Convert Modbus **RTU to PROFINET** in 4 steps

MGate Product Features

· Multiple connection interfaces, including serial, Ethernet, and wireless

- Easy-to-use user interfaces for effortless configuration •
- Embedded traffic monitoring/diagnostic information for easy troubleshooting
- Security features based on IEC 62443
- Industrial-grade design to overcome harsh environments







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