

MOXA

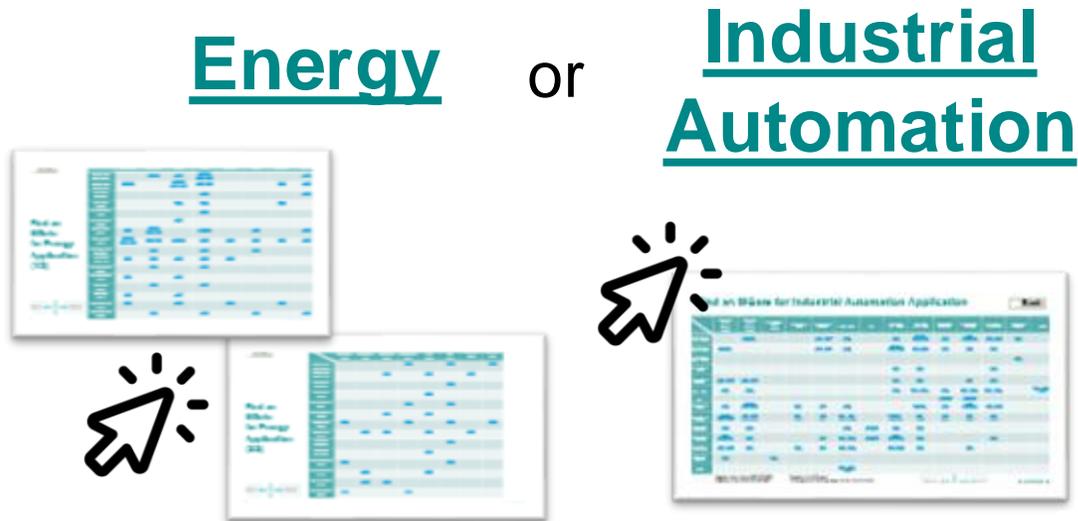
# MGate Selection Guide

Feb 2025

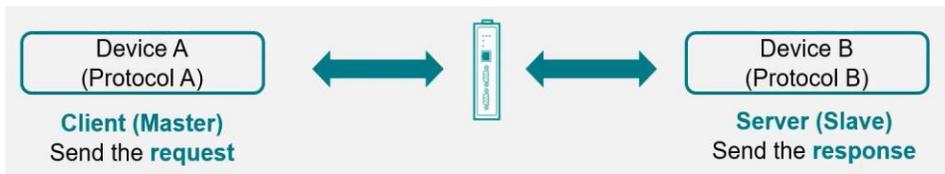
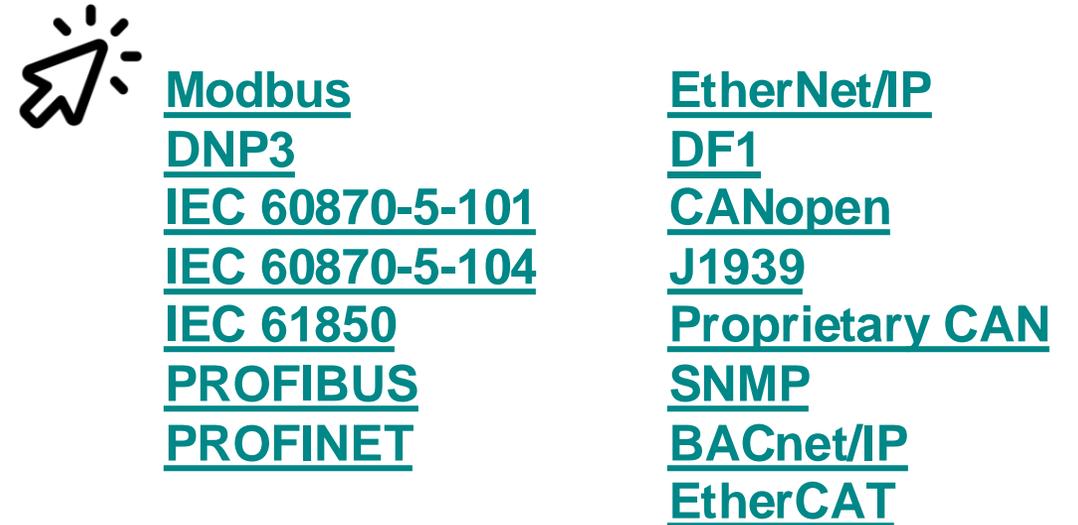


# 2 Easy Ways to Choose an MGate

- Choose by Your Application



- Choose by Device Protocol



**Tip: Keep in mind that there are one protocol and its role for Device A and another for Device B in a conversion.**

# MGate for Energy

 Back

# Find an MGate for Energy Application (1/2)

Device A/B	Modbus RTU/ASCII Server	Modbus RTU/ASCII Client	Modbus TCP Server	Modbus TCP Client	DNP3 Serial Outstation	DNP3 Serial Master	DNP3 TCP/UDP Outstation	DNP3 TCP/UDP Client
Modbus RTU/ASCII Server		<a href="#">MB3000<sup>1</sup></a>	<a href="#">5105</a>	<a href="#">MB3000, 5109, 5105</a>				<a href="#">5109</a>
Modbus RTU/ASCII Client	<a href="#">MB3000<sup>1</sup></a>		<a href="#">MB3000, 5109, 5105</a>	<a href="#">5105, 5109</a>			<a href="#">5109</a>	<a href="#">5109</a>
DNP3 Serial Outstation				<a href="#">5109</a>				<a href="#">5109</a>
DNP3 Serial Master			<a href="#">5109</a>	<a href="#">5109</a>			<a href="#">5109</a>	
IEC 60870-5-101 Slave				<a href="#">5114</a>				
IEC 60870-5-101 Master			<a href="#">5114</a>					
Modbus TCP Server	<a href="#">5105</a>	<a href="#">MB3000, 5109, 5105</a>		<a href="#">MB3000<sup>2</sup></a>		<a href="#">5109</a>		<a href="#">5109</a>
Modbus TCP Client	<a href="#">MB3000, 5109, 5105</a>	<a href="#">5105, 5109</a>	<a href="#">MB3000<sup>2</sup></a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>
DNP3 TCP/UDP Outstation		<a href="#">5109</a>		<a href="#">5109</a>		<a href="#">5109</a>		
DNP3 TCP/UDP Client	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>			
IEC 60870-5-104 Server		<a href="#">5114</a>		<a href="#">5114</a>				
IEC 60870-5-104 Client	<a href="#">5114</a>		<a href="#">5114</a>					
BACnet/IP Server		<a href="#">5217</a>		<a href="#">5217</a>				
BACnet/IP Client	<a href="#">5217</a>		<a href="#">5217</a>					
IEC 61850 MMS Client	<a href="#">5119</a>		<a href="#">5119</a>		<a href="#">5119</a>		<a href="#">5119</a>	
IEC 61850 MMS Server		<a href="#">5192</a>		<a href="#">5192</a>		<a href="#">5192</a>		<a href="#">5192</a>



<sup>1</sup>Applies only to the MB3270/3660. <sup>2</sup>Applies to the MB3x70/MB3660.

# Find an MGate for Energy Application (2/2)

	IEC 60870-5-101 Master	IEC 60870-5-101 Slave	IEC 60870-5-104 Server	IEC 60870-5-104 Client	IEC 61850 MMS Server	IEC 61850 MMS Client	BACnet/IP Server	BACnet/IP Client
Modbus RTU/ ASCII Server				<a href="#">5114</a>		<a href="#">5119</a>		<a href="#">5217</a>
Modbus RTU/ ASCII Client			<a href="#">5114</a>		<a href="#">5192</a>		<a href="#">5217</a>	
DNP3 Serial Outstation						<a href="#">5119</a>		
DNP3 Serial Master					<a href="#">5192</a>			
IEC 60870-5-101 Slave				<a href="#">5114</a>		<a href="#">5119</a>		
IEC 60870-5-101 Master			<a href="#">5114</a>		<a href="#">5192</a>			
Modbus TCP Server	<a href="#">5114</a>			<a href="#">5114</a>		<a href="#">5119</a>		<a href="#">5217</a>
Modbus TCP Client		<a href="#">5114</a>	<a href="#">5114</a>		<a href="#">5192</a>		<a href="#">5217</a>	
DNP3 TCP Outstation						<a href="#">5119</a>		
DNP3 TCP/ UDP Client					<a href="#">5192</a>			
IEC 60870-5-104 Server	<a href="#">5114</a>					<a href="#">5119</a>		
IEC 60870-5-104 Client		<a href="#">5114</a>			<a href="#">5192</a>			
IEC 61850 MMS Client		<a href="#">5119</a>	<a href="#">5119</a>					
IEC 61850 MMS Server	<a href="#">5192</a>			<a href="#">5192</a>				



# MGate for Industrial Applications

# Find an MGate for Industrial Automation Application

[↩ Back](#)

	Modbus RTU /ASCII Server	Modbus RTU /ASCII Client	Proprietary Serial Server	PROFIBUS Slave	PROFIBUS Master	CAN Slave <sup>4</sup>	DF1	Modbus TCP Server	Modbus TCP Client	EtherNet/IP Adapter	EtherNet/IP Scanner	PROFINET Controller	EtherCAT Master	SNMP
Modbus RTU/ASCII Server		<a href="#">MB3000<sup>1</sup></a>			<a href="#">4101, 5111</a>	<a href="#">5118<sup>3</sup></a>		<a href="#">5105</a>	<a href="#">MB3000, 5109, 5105</a>	<a href="#">5105</a>	<a href="#">5105, 5135/5435</a>	<a href="#">5103, 5134</a>	<a href="#">5216</a>	
Modbus RTU/ASCII Client	<a href="#">MB3000<sup>1</sup></a>				<a href="#">4101, 5111</a>	<a href="#">5118<sup>3</sup></a>		<a href="#">MB3000, 5109, 5105</a>	<a href="#">5105, 5109</a>	<a href="#">5105</a>	<a href="#">5105</a>	<a href="#">5103</a>		
Proprietary Serial Server													<a href="#">5216</a>	
PROFIBUS Slave								<a href="#">5101</a>	<a href="#">5101</a>			<a href="#">5102</a>		
PROFIBUS Master	<a href="#">4101, 5111</a>	<a href="#">4101, 5111</a>						<a href="#">5111</a>	<a href="#">5111</a>		<a href="#">5111</a>	<a href="#">5111</a>		
CAN Slave <sup>4</sup>	<a href="#">5118<sup>3</sup></a>	<a href="#">5118<sup>3</sup></a>						<a href="#">5118<sup>3</sup></a>	<a href="#">5121, 5118<sup>3</sup></a>	<a href="#">5118<sup>3</sup></a>	<a href="#">5122, 5118<sup>3</sup></a>	<a href="#">5123, 5118<sup>3</sup></a>		<a href="#">5121, 5122, 5123</a>
DF1										<a href="#">EIP3000</a>	<a href="#">EIP3000</a>			
Modbus TCP Server	<a href="#">5105</a>	<a href="#">MB3000, 5109, 5105</a>		<a href="#">5101</a>	<a href="#">5111</a>	<a href="#">5118<sup>3</sup></a>			<a href="#">MB3000<sup>2</sup></a>	<a href="#">5105</a>	<a href="#">5105, 5135/5435</a>	<a href="#">5103, 5134</a>		
Modbus TCP Client	<a href="#">MB3000, 5109, 5105</a>	<a href="#">5105, 5109</a>		<a href="#">5101</a>	<a href="#">5111</a>	<a href="#">5121, 5118<sup>3</sup></a>		<a href="#">MB3000<sup>2</sup></a>	<a href="#">5109</a>	<a href="#">5105</a>	<a href="#">5105</a>	<a href="#">5103</a>		
EtherNet/IP Adapter	<a href="#">5105</a>	<a href="#">5105</a>				<a href="#">5118<sup>2</sup></a>	<a href="#">EIP3000</a>	<a href="#">5105</a>	<a href="#">5105</a>					
EtherNet/IP Scanner	<a href="#">5105, 5135/5435</a>	<a href="#">5105</a>			<a href="#">5111</a>	<a href="#">5122, 5118<sup>3</sup></a>	<a href="#">EIP3000</a>	<a href="#">5105, 5135/5435</a>	<a href="#">5105</a>			<a href="#">5103</a>		
PROFINET Controller	<a href="#">5103, 5134</a>	<a href="#">5103</a>		<a href="#">5102</a>	<a href="#">5111</a>	<a href="#">5123, 5118<sup>3</sup></a>		<a href="#">5103, 5134</a>	<a href="#">5103</a>		<a href="#">5103</a>			
EtherCAT Master	<a href="#">5216</a>		<a href="#">5216</a>											
SNMP						<a href="#">5121, 5122, 5123</a>								

<sup>1</sup>Applies only to the MB3270/3660.

<sup>2</sup>Applies to the MB3x70/MB3660.

<sup>3</sup>Applies to J1939 only.

<sup>4</sup>CANopen/J1939/Proprietary CAN (CAN 2.0A/B).



# MGate by Device Protocols

# Modbus TCP/RTU/ ASCII (1/2)

	Modbus RTU/ ASCII Server	Modbus RTU/ ASCII Client	Modbus TCP Server	Modbus TCP Client
Modbus RTU/ ASCII Server		<a href="#">MB3000</a> <sup>1</sup>	<a href="#">5105</a>	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>
Modbus RTU/ ASCII Client	<a href="#">MB3000</a> <sup>1</sup>		<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5109</a>
DNP3 Serial Outstation				<a href="#">5109</a>
DNP3 Serial Master			<a href="#">5109</a>	<a href="#">5109</a>
IEC 60870-5-101 Slave				<a href="#">5114</a>
IEC 60870-5-101 Master			<a href="#">5114</a>	
Modbus TCP Server	<a href="#">5105</a>	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>		<a href="#">MB3000</a> <sup>2</sup>
Modbus TCP Client	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5109</a>	<a href="#">MB3000</a> <sup>2</sup>	<a href="#">5109</a>
DNP3 TCP Outstation		<a href="#">5109</a>		<a href="#">5109</a>
DNP3 TCP/ UDP Client	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>
IEC 60870-5-104 Server		<a href="#">5114</a>		<a href="#">5114</a>
IEC 60870-5-104 Client	<a href="#">5114</a>		<a href="#">5114</a>	
BACnet/IP Client	<a href="#">5217</a>		<a href="#">5217</a>	
IEC 61850 MMS Client	<a href="#">5119</a>		<a href="#">5119</a>	
IEC 61850 MMS Server		<a href="#">5192</a>		<a href="#">5192</a>

 Back



<sup>1</sup>Applies only to the MB3270/3660.

<sup>2</sup>Applies to the MB3x70/MB3660.

# Modbus TCP/RTU/ ASCII (2/2)

	Modbus RTU/ ASCII Server	Modbus RTU/ ASCII Client	Modbus TCP Server	Modbus TCP Client
Modbus RTU/ ASCII Server		<a href="#">MB3000</a> <sup>1</sup>	<a href="#">5105</a>	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>
Modbus RTU/ ASCII Client	<a href="#">MB3000</a> <sup>1</sup>		<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5109</a>
PROFIBUS Slave			<a href="#">5101</a>	<a href="#">5101</a>
PROFIBUS Master	<a href="#">4101</a> , <a href="#">5111</a>	<a href="#">4101</a> , <a href="#">5111</a>	<a href="#">5111</a>	<a href="#">5111</a>
CAN Slave <sup>4</sup>	<a href="#">5118</a> <sup>3</sup>	<a href="#">5118</a> <sup>3</sup>	<a href="#">5118</a> <sup>3</sup>	<a href="#">5121</a> , <a href="#">5118</a> <sup>3</sup>
Modbus TCP Server	<a href="#">5105</a>	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>		<a href="#">MB3000</a> <sup>2</sup>
Modbus TCP Client	<a href="#">MB3000</a> , <a href="#">5109</a> , <a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5109</a>	<a href="#">MB3000</a> <sup>2</sup>	<a href="#">5109</a>
EtherNet/IP Adapter	<a href="#">5105</a>	<a href="#">5105</a>	<a href="#">5105</a>	<a href="#">5105</a>
EtherNet/IP Scanner	<a href="#">5105</a> , <a href="#">5135/5435</a>	<a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5135/5435</a>	<a href="#">5105</a>
PROFINET Controller	<a href="#">5103</a> , <a href="#">5134</a>	<a href="#">5103</a>	<a href="#">5103</a> , <a href="#">5134</a>	<a href="#">5103</a>
EtherCAT Master	<a href="#">5216</a>			

<sup>1</sup>Applies only to the MB3270/3660.

<sup>2</sup>Applies to the MB3x70/MB3660.

<sup>3</sup>Applies to J1939 only.

<sup>4</sup>CANopen/J1939/Proprietary CAN (CAN 2.0A/B).



# DNP3 TCP/UDP/ Serial

	DNP3 Serial Outstation	DNP3 Serial Master	DNP3 TCP/UDP Outstation	DNP3 TCP/UDP Client
Modbus RTU/ASCII Server				<a href="#">5109</a>
Modbus RTU/ASCII Client			<a href="#">5109</a>	<a href="#">5109</a>
DNP3 Serial Outstation				<a href="#">5109</a>
DNP3 Serial Master			<a href="#">5109</a>	
Modbus TCP Server		<a href="#">5109</a>		<a href="#">5109</a>
Modbus TCP Client	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>	<a href="#">5109</a>
DNP3 TCP/UDP Outstation		<a href="#">5109</a>		
DNP3 TCP/UDP Client	<a href="#">5109</a>			
IEC 61850 MMS Client	<a href="#">5109</a>		<a href="#">5109</a>	
IEC 61850 MMS Server		<a href="#">5192</a>		<a href="#">5192</a>

 **Back**



# IEC 101/104

	IEC 60870-5-101 Slave	IEC 60870-5-101 Master	IEC 60870-5-104 Server	IEC 60870-5-104 Client
Modbus RTU/ ASCII Server				<a href="#">5114</a>
Modbus RTU/ ASCII Client			<a href="#">5114</a>	
IEC 60870-5-101 Slave				<a href="#">5114</a>
IEC 60870-5-101 Master			<a href="#">5114</a>	
Modbus TCP Server		<a href="#">5114</a>		<a href="#">5114</a>
Modbus TCP Client	<a href="#">5114</a>		<a href="#">5114</a>	
IEC 60870-5-104 Server		<a href="#">5114</a>		
IEC 60870-5-104 Client	<a href="#">5114</a>			
IEC 61850 MMS Client	<a href="#">5119</a>		<a href="#">5119</a>	
IEC 61850 MMS Server		<a href="#">5192</a>		<a href="#">5192</a>

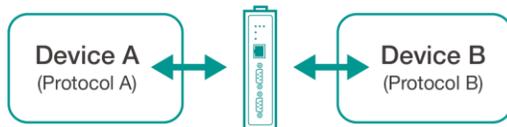
 **Back**



# IEC 61850 MMS

	IEC 61850 MMS Client	IEC 61850 MMS Server
Modbus RTU/ ASCII Server	<a href="#">5119</a>	
Modbus RTU/ ASCII Client		<a href="#">5192</a>
DNP3 Serial Outstation	<a href="#">5192</a>	
DNP3 Serial Master		<a href="#">5192</a>
IEC 60870-5-101 Slave	<a href="#">5192</a>	
IEC 60870-5-101 Master		<a href="#">5192</a>
Modbus TCP Server	<a href="#">5119</a>	
Modbus TCP Client		<a href="#">5192</a>
DNP3 TCP Outstation	<a href="#">5192</a>	
DNP3 TCP/ UDP Client		<a href="#">5192</a>
IEC 60870-5-104 Server	<a href="#">5119</a>	
IEC 60870-5-104 Client		<a href="#">5192</a>

 **Back**



# PROFIBUS PROFINET

	PROFIBUS Slave	PROFIBUS Master	PROFINET Controller
Modbus RTU/ASCII Server		<a href="#">4101</a> , <a href="#">5111</a>	<a href="#">5103</a> , <a href="#">5134</a>
Modbus RTU/ASCII Client		<a href="#">4101</a> , <a href="#">5111</a>	<a href="#">5103</a>
PROFIBUS Slave			<a href="#">5102</a>
PROFIBUS Master			<a href="#">5111</a>
CAN Slave <sup>1</sup>			<a href="#">5123</a> , <a href="#">5118</a> <sup>2</sup>
Modbus TCP Server	<a href="#">5101</a>	<a href="#">5111</a>	<a href="#">5103</a> , <a href="#">5134</a>
Modbus TCP Client	<a href="#">5101</a>	<a href="#">5111</a>	<a href="#">5103</a>
EtherNet/IP Scanner		<a href="#">5111</a>	<a href="#">5103</a>
PROFINET Controller	<a href="#">5102</a>	<a href="#">5111</a>	

<sup>1</sup>CANopen/J1939/Proprietary CAN (CAN 2.0A/B).

<sup>2</sup>Applies to J1939 only.

 **Back**



# EtherNet/IP DF1

	DF1	EtherNet/IP Adapter	EtherNet/IP Scanner
Modbus RTU/ASCII Server		<a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5135/5435</a>
Modbus RTU/ASCII Client		<a href="#">5105</a>	<a href="#">5105</a>
PROFIBUS Slave			
PROFIBUS Master			<a href="#">5111</a>
CAN Slave <sup>1</sup>		<a href="#">5118</a> <sup>2</sup>	<a href="#">5122</a> , <a href="#">5118</a> <sup>2</sup>
DF1		<a href="#">EIP3000</a>	<a href="#">EIP3000</a>
Modbus TCP Server		<a href="#">5105</a>	<a href="#">5105</a> , <a href="#">5135/5435</a>
Modbus TCP Client		<a href="#">5105</a>	<a href="#">5105</a>
EtherNet/IP Adapter	<a href="#">EIP3000</a>		
EtherNet/IP Scanner	<a href="#">EIP3000</a>		
PROFINET Controller			<a href="#">5103</a>

<sup>1</sup>CANopen/J1939/Proprietary CAN (CAN 2.0A/B).

<sup>2</sup>Applies to J1939 only.

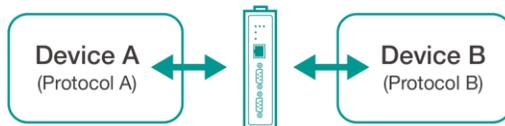
 **Back**



# BACnet/IP

	BACnet/IP Client	BACnet/IP Server
Modbus RTU/ASCII Server	<a href="#">5217</a>	
Modbus RTU/ASCII Client		<a href="#">5217</a>
Modbus TCP Server	<a href="#">5217</a>	
Modbus TCP Client		<a href="#">5217</a>

 **Back**



# CANopen J1939 Proprietary CAN

	CAN Slave <sup>1</sup>
Modbus RTU/ ASCII Server	<a href="#">5118</a> <sup>2</sup>
Modbus RTU/ ASCII Client	<a href="#">5118</a> <sup>2</sup>
Modbus TCP Server	<a href="#">5118</a> <sup>2</sup>
Modbus TCP Client	<a href="#">5121</a> , <a href="#">5118</a> <sup>2</sup>
EtherNet/IP Adapter	<a href="#">5118</a> <sup>2</sup>
EtherNet/IP Scanner	<a href="#">5122</a> , <a href="#">5118</a> <sup>2</sup>
PROFINET Controller	<a href="#">5123</a> , <a href="#">5118</a> <sup>2</sup>
SNMP	<a href="#">5121</a> , <a href="#">5122</a> , <a href="#">5123</a>

<sup>1</sup>CANopen/J1939/Proprietary CAN (CAN 2.0A/B).

<sup>2</sup>Applies to J1939 only.

 **Back**



# EtherCAT

	EtherCAT Master
Modbus RTU/ ASCII Server	<a href="#">5216</a>
Proprietary Serial Server	<a href="#">5216</a>

 **Back**



# Thank You

For further information, visit [www.moxa.com](http://www.moxa.com).

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