



2025 Product Selection Guide

· Network Infrastructure · Edge Connectivity · Industrial Computing

MOXA®

Your Trusted Partner in Automation

Providing robust connectivity technologies and superior reliability to futureproof your industrial operations



Moxa is a global leader in industrial networking and communications that enables connectivity and reliability for the automated world of today and tomorrow, and enhances cybersecurity for industrial automation systems. By working together with world-class experts and partners, we transform our customers' unique requirements into practical networking solutions for industrial applications and mission-critical infrastructure.

Protocol Gateways

Our fieldbus-to-Ethernet MGate gateways do more than just link serial devices to Ethernet networks—they also facilitate multiple connections and protocol conversions, helping you handle large volumes of data. The MGate supports various protocols, including Modbus TCP, PROFINET, EtherNet/IP, IEC 61850, CAN, EtherCAT, and more, catering to energy and industrial automation applications.



Protocol Gateways
Product Pages

Find an MGate for Industrial Automation Applications

Device A Device B	Modbus RTU/ASCII Server	Modbus RTU/ASCII Client	Proprietary Serial Server	PROFIBUS Slave	PROFIBUS Master	CAN Slave ⁴	DF1	Modbus TCP Server	Modbus TCP Client	EtherNet/ IP Adapter	EtherNet/ IP Scanner	PROFINET Controller	EtherCAT Master	SNMP
Modbus RTU/ASCII Server	—	MB3000 ¹	—	—	4101 5111	5118 ³	—	5105	MB3000 5109 5105	5105	5105 5135/5435	5103 5134	5216	—
Modbus RTU/ASCII Client	MB3000 ¹	—	—	—	4101 5111	5118 ³	—	MB3000 5109 5105	5105 5109	5105	5105	5103	—	—
Proprietary Serial Server	—	—	—	—	—	—	—	—	—	—	—	—	5216	—
PROFIBUS Slave	—	—	—	—	—	—	—	5101	5101	—	—	5102	—	—
PROFIBUS Master	4101 5111	4101 5111	—	—	—	—	—	5111	5111	—	5111	5111	—	—
CAN Slave ⁴	5118 ³	5118 ³	—	—	—	—	—	5118 ³	5121 5118 ³	5118 ³	5122 5118 ³	5123 5118 ³	—	5121 5122 5123
DF1	—	—	—	—	—	—	—	—	—	EIP3000	EIP3000	—	—	—
Modbus TCP Server	5105	MB3000 5109 5105	—	5101	5111	5118 ³	—	—	MB3000 ²	5105	5105 5135/5435	5103 5134	—	—
Modbus TCP Client	MB3000 5109 5105	5105 5109	—	5101	5111	5121 5118 ³	—	MB3000 ²	5109	5105	5105	5103	—	—
EtherNet/IP Adapter	5105	5105	—	—	—	5118 ³	EIP3000	5105	5105	—	—	—	—	—
EtherNet/IP Scanner	5105 5135/5435	5105	—	—	5111	5122 5118 ³	EIP3000	5105 5135/5435	5105	—	—	5103	—	—
PROFINET Controller	5103 5134	5103	—	5102	5111	5123 5118 ³	—	5103 5134	5103	—	5103	—	—	—
EtherCAT Master	5216	—	5216	—	—	—	—	—	—	—	—	—	—	—
SNMP	—	—	—	—	—	5121 5122 5123	—	—	—	—	—	—	—	—

¹ Applies to the MB3270/3660 Series.

² Applies to the MB3X70/MB3660 Series.

³ Applies to J1939 only.

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

Industrial Ethernet Gateways



Preliminary



Product Series	MGate MB3180/MB3280/MB3480	MGate MB3170/MB3270	MGate MB3660	MGate MB3170-G2/MB3270-G2/MB3470-G2	MGate 5217
Ethernet Interface					
10/100BaseT(X) Ports (RJ45 Connector)	1 (Auto MDI/MDI-X connection)	2 (1 IP, Ethernet cascade, Auto MDI/MDI-X connection)	2 (2 IPs, Auto MDI/MDI-X connection)		2 (Auto MDI/MDI-X connection)
Magnetic Isolation Protection	1.5 kV (built-in)				
Ethernet Software Features					
Industrial Protocols	Modbus TCP Client, Modbus TCP Server				
Management	All models: ARP, DHCP Client, DNS, HTTP, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP MGate MB3280/MB3240 models: HTTPS, SMTP, SNMP Trap, NTP Client	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, NTP Client	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, NTP Client, RADIUS	ARP, DHCP Client, DNS, HTTPS, SMTP, SNMP, Trap/Inform, SNMPv1/v2c/v3, TCP/IP, UDP, NTP Client, LLDP	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, NTP Client
BACnet/IP					
Mode	—				Client, Server
Memory Size	—				MGate 5217-1200-T models: 1200 points MGate 5217-600-T models: 600 points
Serial Interface					
No. of Ports	MGate MB3180 models: 1 MGate MB3280 models: 2 MGate MB3480 models: 4	MGate MB3170 models: 1 MGate MB3270 models: 2	MGate MB3660-8 models: 8 MGate MB3660-16 models: 16	MGate MB3170-G2 models: 1 MGate MB3270-G2 models: 2 MGate MB3470-G2 models: 4	2
Connector	DB9 male	MGate MB3170/MB3170I models: DB9 male for RS-232, Terminal block for RS-422/485 MGate MB3270/MB3270I models: 2 x DB9 male	MGate MB3660-8/16 models: DB9 male MGate MB3660-8/16-J models: RJ45	MGate MB3170-G2/MB3270-G2/MB3470-G2: DB9 male MGate MB3270-TB-G2/MB3470-TB-G2: Terminal block	DB9 male
Serial Standards	RS-232, RS-422, RS-485 (software-selectable)				
Baudrate	50 bps to 921.6 kbps MGate MB3170-G2/MB3270-G2/MB3470-G2 models: Support non-standard baudrates				
RS-485 Data Direction Control	ADDC (automatic data direction control)				
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms			1 kilo-ohm, 150 kilo-ohms (software-configurable)	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	MGate MB3180 models: None MGate MB3280/MB3480 models: 120 ohms	120 ohms		120 ohms (software-configurable)	120 ohms
Isolation	—	I models: 2 kV	I models: 2 kV	I models: 2 kV	2 kV (built-in)
Serial Software Features					
Industrial Protocols	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server			Modbus RTU/ASCII Client, Modbus RTU/ASCII Server, Proprietary Serial Client	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server
Power Parameters					
Input Voltage	12 to 48 VDC		AC models: 100 to 240 VAC (50/60 Hz) DC models: 20 to 60 VDC (1.5 kV isolation) All models: Redundant dual inputs	12 to 48 VDC Redundant dual inputs	24 VAC 12 to 48 VDC
Environmental Limits					
Operating Temperature	MGate MB3180/3480 models: 0 to 55°C (32 to 131°F) MGate MB3280 models: 0 to 60°C (32 to 140°F)	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	0 to 60°C (32 to 140°F)		Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)
Standards and Certifications					
Safety	MB3180 models: UL 60950-1, EN 62368-1 MB3280 models: IEC 62368-1, IEC 60950-1, UL 60950-1, UL 62368-1 MB3480 models: IEC 62368-1, UL 62368-1, IEC 60950-1	UL 60950-1, IEC 60950-1, EN 62368-1, UL 508	All models excluding ~J models: IEC 62368-1, UL 62368-1, IEC 60950-1, UL 60950-1	UL 62368-1, IEC 62368-1	EN IEC 62368-1, UL 62368-1 UL 60950
EMC	EN 55032/35				
EMI	FCC Part 15B Class A				
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV (MB3180/MB3280) IEC 61000-4-5 Surge: Power: 1 kV; Signal: 2 kV (MB3480) IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF IEC 61000-4-11	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 2 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV (Ethernet, Serial signal) IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV (Ethernet, Serial signal) IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11
Hazardous Locations	—	ATEX, CID2, IECEx	—	ATEX, CID2, IECEx	—
Maritime	—	DNV	—	DNV	—

Industrial Ethernet Gateways



Product Series	MGate 4101-MB-PBS	MGate 5101-PBM-MN	MGate 5102-PBM-PN	MGate 5111	MGate 5216	MGate 5103	MGate 5134	
Ethernet Interface								
10/100BaseT(X) Ports (RJ45 Connector)	–	1 (Auto MDI/MDI-X connection)	2 (Auto MDI/MDI-X connection)					
Magnetic Isolation Protection	–	1.5 kV (built-in)						
Ethernet Software Features								
Industrial Protocols	–	Modbus TCP Client, Modbus TCP Server	PROFINET IO Device	Modbus TCP Client, Modbus TCP Server, PROFINET IO Device, EtherNet/IP Adapter	EtherCAT Slave	Modbus TCP Client, Modbus TCP Server, PROFINET IO Device, EtherNet/IP Adapter	Modbus TCP Client, PROFINET IO Device	
Management	–	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP, NTP Client						ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, UDP, NTP Client
Serial Interface								
No. of Ports	1	–	–	1	2	1		
Connector	DB9 male	–	–	DB9 male				
Serial Standards	RS-232/422/485	–	–	RS-232/422/485				
Baudrate	50 bps to 921.6 kbps	–	–	50 bps to 921.6 kbps			300 bps to 921.6 kbps	
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms	–	–	1 kilo-ohm, 150 kilo-ohms			1 kilo-ohm, 150 kilo-ohms (software-configurable)	
Terminator for RS-485	120 ohms	–	–	120 ohms			120 ohms (software-configurable)	
Isolation	I models: 2 kV	–	–	2 kV (built-in)				
Serial Software Features								
Industrial Protocols	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server	–	–	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server	Modbus RTU/ASCII Client, Proprietary Serial Client	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server	Modbus RTU/ASCII Client	
PROFIBUS Interface								
Industrial Protocols	PROFIBUS DP-V0 Slave	PROFIBUS DP-V1 Master		PROFIBUS DP-V0 Slave	–			
No. of Ports	1			–				
Connector	DB9 female			–				
Baudrate	9600 bps to 12 Mbps			–				
Isolation	2 kV (built-in)			–				
Power Parameters								
Input Voltage	12 to 48 VDC							
Environmental Limits								
Operating Temperature	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)						Standard models: -10 to 60°C (14 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	
Standards and Certifications								
Safety	EN IEC 62368-1, UL 62368-1, UL 60950-1	EN IEC 62368-1, UL 60950-1	EN IEC 62368-1, UL 508	EN IEC 62368-1, UL 61010-2-201	EN IEC 61010-2-201, UL 61010-2-201	EN IEC 62368-1, UL 508	EN IEC 61010-2-201, UL 61010-2-201	
EMC	EN 55032/35	EN 55032/35	EN 55032/35	EN 61000-6-2/-6-4		EN 55032/35	EN 61000-6-2/-6-4	
EMI	FCC Part 15B Class A		CISPR 32, FCC Part 15B Class B	FCC Part 15B Class A		CISPR 32, FCC Part 15B Class B	FCC Part 15B Class A	
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF		IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF		
Hazardous Locations	ATEX, CID2, IECEx				–	ATEX, CID2, IECEx	–	

Industrial Ethernet Gateways



Product Series	MGate EIP3170/EIP3270	MGate 5105-MB-EIP	MGate 5135/5435	MGate 5118	MGate 5121	MGate 5122	MGate 5123
Ethernet Interface							
10/100BaseT(X) Ports (RJ45 Connector)	2 (Auto MDI/MDI-X connection)						
Magnetic Isolation Protection	1.5 kV (built-in)						
Ethernet Software Features							
Industrial Protocols	Ethernet/IP (PCCC)	Modbus TCP Client, Modbus TCP Server, EtherNet/IP Scanner, EtherNet/IP Adapter, MQTT	Modbus TCP Client, EtherNet/IP Adapter	Modbus TCP Client, Modbus TCP Server, PROFINET IO Device, EtherNet/IP Scanner, EtherNet/IP Adapter	Modbus TCP Server	EtherNet/IP Adapter	PROFINET IO Device
Management	ARP, DHCP Client, SNMPv1, TCP/IP, Telnet, UDP	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP, NTP Client	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, UDP, NTP Client	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP, NTP Client	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, UDP, NTP Client		
Serial/CAN Interface							
Industrial Protocols	DF1	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server	Modbus RTU/ASCII Client	J1939, Modbus RTU/ASCII Client, Modbus RTU/ASCII Server	CANopen, J1939, Proprietary CAN (CAN 2.0A/B)		
No. of Ports	Serial MGate EIP3170 models: 1 MGate EIP3270 models: 2	1 x Serial	Serial MGate 5135 models: 1 MGate 5435 models: 4	1 x Serial 1 x CAN	1 x CAN		
Connector	MGate EIP3170 models: DB9 male for RS-232, Terminal block for RS-422 MGate EIP3270 models: 2 x DB9 male	Serial: DB9 male	Serial: DB9 male	Serial: DB9 male CAN: Spring-type Euroblock terminal	CAN: Spring-type Euroblock terminal		
Serial Standards	RS-232, RS-422	RS-232, RS-422, RS-485			—		
Baudrate	Serial: 1200 bps to 921.6 kbps	Serial: 50 bps to 921.6 kbps	Serial: 300 bps to 921.6 kbps	Serial: 50 bps to 921.6 kbps J1939: 250 kbps, 500 kbps, 1 Mbps	CANopen, Proprietary CAN (CAN2.0A/B): 10 kbps, 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps, 1 Mbps J1939: 250 kbps, 500 kbps, 1 Mbps		
Isolation	I models: 2 kV	2 kV (built-in)					
Pull High/Low Resistor for RS-485	—	1 kilo-ohm, 150 kilo-ohms	1 kilo-ohm, 150 kilo-ohms, (software-configurable)	1 kilo-ohm, 150 kilo-ohms	—		
Terminator	—	RS-485: 120 ohms	RS-485: 120 ohms (software-configurable)	RS-485: 120 ohms CAN: 120 ohms	CAN: 120 ohms (software-configurable)		
Power Parameters							
Input Voltage	12 to 48 VDC						
Environmental Limits							
Operating Temperature	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	Standard models: -10 to 60°C (14 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)	Standard models: -10 to 60°C (14 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)		
Standards and Certifications							
Safety	EN IEC 62368-1, UL 60950-1, UL 508	EN IEC 62368-1, UL 508	EN IEC 61010-2-201, UL 61010-2-201	EN IEC 62368-1, UL 61010-2-201	EN IEC 61010-2-201, UL 61010-2-201		
EMI	FCC Part 15B Class A	CISPR 32, FCC Part 15B Class B	FCC Part 15B Class A				
EMC	EN 55032/35		EN 61000-6-2/-6-4				
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF		IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF		
Hazardous Locations	ATEX, CID2, IECEx		—	ATEX, CID2, IECEx	—		
Maritime	DNV	—					

Industrial Ethernet Gateways



Product Series	MGate 5109	MGate 5114	MGate 5119	MGate 5192
Ethernet Interface				
10/100BaseT(X) Ports (RJ45 Connector)	2 (Auto MDI/MDI-X connection)			
Magnetic Isolation Protection	1.5 kV (built-in)			
Ethernet Software Features				
Industrial Protocols	Modbus TCP Client, Modbus TCP Server, DNP3 TCP Client, DNP3 TCP/UDP Outstation	Modbus TCP Client, Modbus TCP Server, IEC 60870-5-104 Client, IEC 60870-5-104 Server	Modbus TCP Client, IEC 60870-5-104 Client, IEC 61850 MMS Server, DNP3 TCP Client	IEC 61850 Client, Modbus TCP Server, DNP3 TCP/UDP Outstation, IEC 60870-5-104 Server
Management	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP, NTP Client			ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, UDP, NTP Client
Serial Interface				
No. of Ports	1			
Connector	DB9 male			
Serial Standards	RS-232, RS-422, RS-485			
Baudrate	50 bps to 921.6 kbps			300 bps to 921.6 kbps
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms			1 kilo-ohm, 150 kilo-ohms (software-configurable)
Terminator for RS-485	120 ohms			120 ohms (software-configurable)
Isolation	2 kV (built-in)			
Serial Software Features				
Industrial Protocols	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server, DNP3 Serial Client, DNP3 Serial Outstation	Modbus RTU/ASCII Client, Modbus RTU/ASCII Server, IEC 60870-5-101 Client (Balanced/Unbalanced), IEC 60870-5-101 Server (Balanced/Unbalanced)	Modbus RTU/ASCII Client, IEC 60870-5-101 Client (Balanced/Unbalanced), DNP3 Serial Client	Modbus RTU/ASCII Server, DNP3 Serial Outstation, IEC 60870-5-101 Server (Balanced/Unbalanced)
IEC 61850				
Mode	—		MMS Server	MMS Client
Max. No. of Information Objects	—		1200 points	5000 points
Power Parameters				
Input Voltage	12 to 48 VDC			
Environmental Limits				
Operating Temperature	Standard models: 0 to 60°C (32 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)		-40 to 75°C (-40 to 167°F)	
Standards and Certifications				
Safety	EN IEC 62368-1, UL 508		EN IEC 62368-1, UL 60950-1, UL 62368-1	EN IEC 61010-2-201, UL 61010-2-201
EMC	EN 55032/35			EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class B		FCC Part 15B Class A	
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF		IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V/m IEC 61000-4-8 PFMF: 100 A/m	
Hazardous Locations	ATEX, CID2, IECEx		—	
Power Substation	—		IEEE 1613, IEC 61850-3	

Robust Security, Layered Defense



Build a Robust and Secure Network With Moxa

Given rising cyberthreats and tighter government regulations, how well-prepared are your industrial networks for rapid environmental shifts and minimizing operational disruption? As one of the first companies globally to receive IEC 62443-4-1 certification for our secure development life-cycle (SDL) and IEC 62443-4-2 certification for multiple networking products, Moxa has over 35 years of experience in helping industrial automation customers build a reliable industrial network. We understand your demands on achieving increased network uptime and reduced security risks. Our secure networking solutions, including switches, routers, firewalls, and network management software, allow you to easily enhance network security and reliability with minimal impact on existing industrial operations.

Scan the QR code for more information about our secure networking offerings.

Moxa's Secure Networking Solutions



EDR/EDF Series

Secure Routers
and Firewalls



EDS/RKS/MDS Series

Managed Ethernet
Switches



MXview One Series

Network and Security
Management Software



Visit

Our Secure Networking Microsite

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With over 35 years of industry experience, Moxa has connected more than 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service. Information about Moxa's solutions is available at www.moxa.com.

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