# MGate MB3660 Series

### 8 and 16-port redundant Modbus gateways



#### **Features and Benefits**

- · Supports Auto Device Routing for easy configuration
- · Supports route by TCP port or IP address for flexible deployment
- Innovative Command Learning for improving system performance
- · Supports agent mode for high performance through active and parallel polling of serial devices
- Supports Modbus serial master to Modbus serial slave communications
- · 2 Ethernet ports with the same IP or dual IP addresses for network redundancy
- · microSD card for configuration backup/duplication and event logs
- · Accessed by up to 256 Modbus TCP clients
- · Connects up to Modbus 128 TCP servers
- RJ45 serial interface (for "-J" models)
- Serial port with 2 kV isolation protection (for "-I" models)
- Dual VDC or VAC power inputs with wide power input range
- · Embedded traffic monitoring/diagnostic information for easy troubleshooting
- · Status monitoring and fault protection for easy maintenance

### **Certifications**







#### Introduction

The MGate MB3660 (MB3660-8 and MB3660-16) gateways are redundant Modbus gateways that convert between the Modbus TCP and Modbus RTU/ASCII protocols. They can be accessed by up to 256 TCP master/client devices, or connect to 128 TCP slave/server devices. The MGate MB3660 isolation model provides 2 kV isolation protection suitable for power substation applications. The MGate MB3660 gateways are designed to easily integrate Modbus TCP and RTU/ASCII networks. The MGate MB3660 gateways offer features that make network integration easy, customizable, and compatible with almost any Modbus network.

For large-scale Modbus deployments, MGate MB3660 gateways can effectively connect a large number of Modbus nodes to the same network. The MB3660 Series can physically manage up to 248 serial slave nodes for 8-port models or 496 serial slave nodes for 16-port models (the Modbus standard only defines Modbus IDs from 1 to 247). Each RS-232/422/485 serial port can be configured individually for Modbus RTU or Modbus ASCII operation and for different baudrates, allowing both types of networks to be integrated with Modbus TCP through one Modbus gateway.

#### **High Performance with Innovative Command Learning**

The MGate MB3660 gateways support two communication modes: transparent mode and agent mode. For transparent mode, the gateway converts Modbus commands from Modbus TCP to Modbus RTU/ASCII, and vice versa, or from serial (master) to serial (slave). However, since only one Modbus protocol request-response action can be executed at any given time, each Modbus device has to wait its turn, resulting in poorer performance.

In order to provide better performance, the MGate MB3660 gateways are designed with an innovative Command Learning function, which can be activated with a single mouse click. Once activated, the gateway will learn and remember the Modbus commands it receives, and once a command has been learned, the gateway will act as though it were in agent mode, and actively send Modbus requests to the relevant Modbus devices. Since the data is saved in a different memory space that can be accessed by the SCADA system, the SCADA system can retrieve Modbus response data directly from the gateway's memory, instead of waiting for the data to pass through the Modbus devices, dramatically increasing communication performance.

### **Auto-Device Routing for Easy Configuration (Patent Pending)**

Moxa's Auto-Device Routing function helps eliminate many of the problems and inconveniences encountered by engineers who need to configure large numbers of Modbus devices. A single mouse click is all that's required to set up a slave ID routing table and configure Modbus gateways to



automatically detect Modbus requests from a supervisory control and data acquisition (SCADA) system. By removing the need to manually create the slave ID routing table, the Auto-Device Routing function saves engineers significant time and reduces cost.

### **Modbus Gateway with Power and Ethernet Redundancy**

For a complicated Modbus system, redundancy is extremely important. The MGate MB3660 Modbus gateways support redundancy for both the power input and Ethernet connection. The MGate MB3660 gateways come with dual AC or DC power inputs built in for power redundancy, and have dual Ethernet ports (with different IPs) for network redundancy. To accommodate different types of applications, the dual Ethernet ports can be configured in one of two ways:

- Use the same IP for both Ethernet ports. In this case, the MGate MB3660 gateway will automatically switch to the backup LAN when the main LAN fails.
- Use different IP addresses for each of the two Ethernet ports. In this case, Modbus clients/masters can use both Ethernet ports to communicate with Modbus RTU/ASCII slave devices at the same time.

### **Specifications**

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Ethernet Software Features         Industrial Protocols         Modbus TCP Client (Master), Modbus TCP Server (Slave)           Configuration Options         Telnet Console, Device Search Utility (DSU), Web Console (HTTP), Serial Console           Management         SNMPv1, SMTP, NTP Client, DNS, DHCP Client, ARP, RADIUS, TCP/IP, UDP           Serial Interface         Console Port           Console Port         RS-232 (TXD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)           No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-816 Series: 16           Connector         MGate MB3660-816: DB9 male MGate MB3660-16 Series: 16           Connector         MGate MB3660-816: DB9 male MGate MB3660-16 Series: 16           Serial Standards         R2-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC® (automatic data direction control)           Pull High/Low Resistor for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals           RS-232         TxD, RxD, RXD, RXC, CTS, DTR, DSR, DCD, GND           RS-485-2w         Dat	10/100BaseT(X) Ports (RJ45 connector)	2 IP addresses Auto MDI/MDI-X connection
Configuration Options         Telnet Console, Device Search Utility (DSU), Web Console (HTTP), Serial Console           Management         SNMPv1, SMTP, NTP Client, DNS, DHCP Client, ARP, RADIUS, TCP/IP, UDP           Serial Interface         Console Port         RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)           No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-8 Series: 8 MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45           Connector         MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45           Serial Standards         R2-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADC© (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals           RS-222         TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-485-2w         Data+, Data-, G	Ethernet Software Features	
Management         SNMPv1, SMTP, NTP Client, DNS, DHCP Client, ARP, RADIUS, TCP/IP, UDP           Serial Interface         RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)           No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-16 Series: 16           Connector         MGate MB3660-8 J6-is: BDB9 male MGate MB3660-8/16-is: RJ45           MGate MB3660-8/16-is: RJ45         R8-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTF//DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC® (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals         RS-232           TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-485-2w         Data+, Data-, GND	Industrial Protocols	Modbus TCP Client (Master), Modbus TCP Server (Slave)
Serial Interface         RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)           No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-16 Series: 16           Connector         MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45           Serial Standards         R2-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC@ (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals         RS-232           TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-422         Tx+, Tx-, Rx+, Rx-, GND           RS-485-2w         Data+, Data-, GND	Configuration Options	Telnet Console, Device Search Utility (DSU), Web Console (HTTP), Serial Console
Console Port         RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)           No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-16 Series: 16           Connector         MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45           Serial Standards         R2-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC@ (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals           RS-232         TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-422         Tx+, Tx-, Rx+, Rx-, GND           RS-485-2w         Data+, Data-, GND	Management	SNMPv1, SMTP, NTP Client, DNS, DHCP Client, ARP, RADIUS, TCP/IP, UDP
No. of Ports         MGate MB3660-8 Series: 8 MGate MB3660-16 Series: 16           Connector         MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45           Serial Standards         R2-232/422/485 (software selectable)           Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC@ (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals           RS-232         TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-422         Tx+, Tx-, Rx+, Rx-, GND           Data+, Data-, GND	Serial Interface	
MGate MB3660-16 Series: 16         Connector       MGate MB3660-8/16: DB9 male MGate MB3660-8/16-J: RJ45         Serial Standards       R2-232/422/485 (software selectable)         Baudrate       50 bps to 921.6 kbps         Data Bits       7, 8         Parity       None, Even, Odd, Space, Mark         Stop Bits       1, 2         Flow Control       RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)         RS-485 Data Direction Control       ADDC® (automatic data direction control)         Pull High/Low Resistor for RS-485       1 kilo-ohm, 150 kilo-ohms         Terminator for RS-485       120 ohms         Isolation       2 kV (I models)         Serial Signals       TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND         RS-232       TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND         RS-422       Tx+, Tx-, Rx+, Rx-, GND         RS-485-2w       Data+, Data-, GND	Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
MGate MB3660-8/16-J: RJ45         Serial Standards       R2-232/422/485 (software selectable)         Baudrate       50 bps to 921.6 kbps         Data Bits       7, 8         Parity       None, Even, Odd, Space, Mark         Stop Bits       1, 2         Flow Control       RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)         RS-485 Data Direction Control       ADDC® (automatic data direction control)         Pull High/Low Resistor for RS-485       1 kilo-ohm, 150 kilo-ohms         Terminator for RS-485       120 ohms         Isolation       2 kV (I models)         Serial Signals       RS-232         TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND         RS-422       Tx+, Tx-, Rx+, Rx-, GND         RS-485-2w       Data+, Data-, GND	No. of Ports	
Baudrate         50 bps to 921.6 kbps           Data Bits         7, 8           Parity         None, Even, Odd, Space, Mark           Stop Bits         1, 2           Flow Control         RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)           RS-485 Data Direction Control         ADDC® (automatic data direction control)           Pull High/Low Resistor for RS-485         1 kilo-ohm, 150 kilo-ohms           Terminator for RS-485         120 ohms           Isolation         2 kV (I models)           Serial Signals           RS-232         TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND           RS-422         Tx+, Tx-, Rx+, Rx-, GND           RS-485-2w         Data+, Data-, GND	Connector	
Data Bits 7, 8  Parity None, Even, Odd, Space, Mark  Stop Bits 1, 2  Flow Control RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)  RS-485 Data Direction Control ADDC® (automatic data direction control)  Pull High/Low Resistor for RS-485 1 kilo-ohm, 150 kilo-ohms  Terminator for RS-485 120 ohms  Isolation 2 kV (I models)  Serial Signals  RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422 Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w Data+, Data-, GND	Serial Standards	R2-232/422/485 (software selectable)
Parity  None, Even, Odd, Space, Mark  1, 2  Flow Control  RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)  RS-485 Data Direction Control  ADDC® (automatic data direction control)  Pull High/Low Resistor for RS-485  1 kilo-ohm, 150 kilo-ohms  Terminator for RS-485  120 ohms  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	Baudrate	50 bps to 921.6 kbps
Stop Bits  1, 2  Flow Control  RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)  RS-485 Data Direction Control  ADDC® (automatic data direction control)  Pull High/Low Resistor for RS-485  1 kilo-ohm, 150 kilo-ohms  Terminator for RS-485  120 ohms  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	Data Bits	7, 8
Flow Control  RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)  RS-485 Data Direction Control  ADDC® (automatic data direction control)  Pull High/Low Resistor for RS-485  1 kilo-ohm, 150 kilo-ohms  Terminator for RS-485  120 ohms  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	Parity	None, Even, Odd, Space, Mark
RS-485 Data Direction Control  ADDC® (automatic data direction control)  Pull High/Low Resistor for RS-485  1 kilo-ohm, 150 kilo-ohms  Terminator for RS-485  120 ohms  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	Stop Bits	1, 2
Pull High/Low Resistor for RS-485  1 kilo-ohm, 150 kilo-ohms  120 ohms  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	Flow Control	RTS/CTS, DTR/DSR, RTS Toggle (RS-232 only)
Terminator for RS-485  Isolation  2 kV (I models)  Serial Signals  RS-232  TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422  Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w  Data+, Data-, GND	RS-485 Data Direction Control	ADDC® (automatic data direction control)
Isolation 2 kV (I models)  Serial Signals  RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422 Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w Data+, Data-, GND	Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Serial Signals  RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND  RS-422 Tx+, Tx-, Rx+, Rx-, GND  RS-485-2w Data+, Data-, GND	Terminator for RS-485	120 ohms
RS-232       TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND         RS-422       Tx+, Tx-, Rx+, Rx-, GND         RS-485-2w       Data+, Data-, GND	Isolation	2 kV (I models)
RS-422	Serial Signals	
RS-485-2w Data+, Data-, GND	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
	RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w Tx+, Tx-, Rx+, Rx-, GND	RS-485-2w	Data+, Data-, GND
	RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND



Industrial Protocols	Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave
Modbus RTU/ASCII	
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Commands	256 per serial port
Memory Size	65535 bytes
Modbus TCP	
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Commands	256
Memory Size	65535 bytes
Modbus (Transparent)	
Max. No. of Client Connections	256
Max. No. of Server Connections	128
Power Parameters	
Input Voltage	All models: Redundant dual inputs AC models: 100 to 240 VAC (47 to 63 Hz) DC models: 20 to 60 VDC (1.5 kV isolation)
No. of Power Inputs	2
Power Connector	Terminal block (for DC models)
Power Consumption	MGate MB3660-8-2AC: 144 mA @ 110 VAC MGate MB3660-8-J-2AC: 111 mA @ 110 VAC MGate MB3660-16-2AC: 178 mA @ 110 VAC MGate MB3660-16-J-2AC: 133 mA @ 110 VAC MGate MB3660I-8-2AC: 244 mA @ 110 VAC MGate MB3660I-8-2AC: 351 mA @ 110 VAC MGate MB3660I-16-2AC: 312 mA @ 24 VDC MGate MB3660-16-2DC: 390 mA @ 24 VDC
Relays	
Contact Current Rating	Resistive load: 2 A @ 30 VDC
Physical Characteristics	
Housing	Metal
IP Rating	IP30
Dimensions (with ears)	480 x 45 x 198 mm (18.90 x 1.77 x 7.80 in)
Dimensions (without ears)	440 x 45 x 198 mm (17.32 x 1.77 x 7.80 in)
Weight	MGate MB3660-8-2AC: 2731 g (6.02 lb) MGate MB3660-8-2DC: 2684 g (5.92 lb) MGate MB3660-8-J-2AC: 2600 g (5.73 lb) MGate MB3660-16-2AC: 2830 g (6.24 lb) MGate MB3660-16-2DC: 2780 g (6.13 lb) MGate MB3660-16-J-2AC: 2670 g (5.89 lb) MGate MB3660l-8-2AC: 2753 g (6.07 lb) MGate MB3660l-16-2AC: 2820 g (6.22 lb)

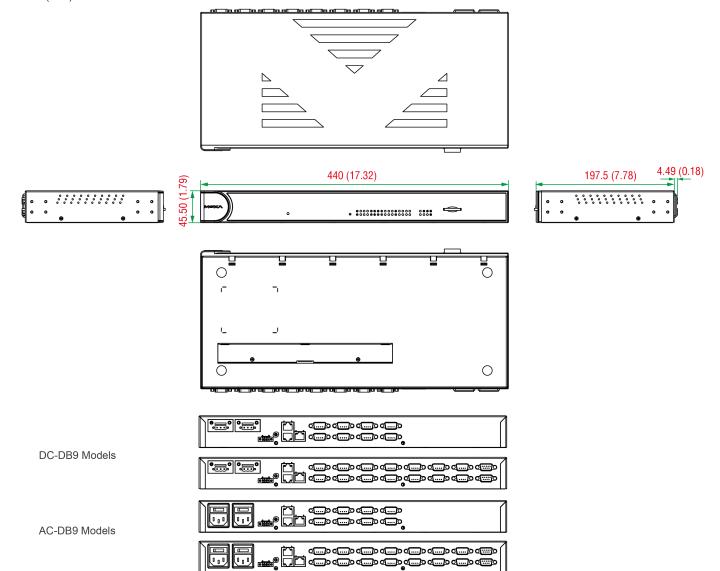


Environmental Limits	
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	EN 60950-1, UL 60950-1
EMC	EN 55032/24
ЕМІ	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 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
Freefall	IEC 60068-2-31
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6, IEC 60068-2-64
MTBF	
Time	MGate MB3660-8-2AC: 716,647 hrs MGate MB3660-8-2DC: 706,783 hrs MGate MB3660-8-J-2AC: 616,505 hrs MGate MB3660-16-2AC: 487,416 hrs MGate MB3660-16-2DC: 482,835 hrs MGate MB3660-16-J-2AC: 437,337 hrs MGate MB3660I-8-2AC: 224,851 hrs MGate MB3660I-16-2AC: 114,595 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x MGate MB3660 Series gateway
Power Supply	1 x power cord, suitable for your region
Cable	1 x RJ45-to-DB9 console cable
Installation Kit	1 x wall-mounting kit
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card



### **Dimensions**

Unit: mm (inch)





# **Ordering Information**

Model Name	No. of Serial Ports	Serial Connector	Serial Isolation	Input Voltage
MGate MB3660-8-2DC	8	DB9 male	-	20-60 VDC (1.5 kV isolation)
MGate MB3660-16-2DC	16	DB9 male	-	20-60 VDC (1.5 kV isolation)
MGate MB3660-8-2AC	8	DB9 male	-	100-240 VAC (47-63 Hz)
MGate MB3660-16-2AC	16	DB9 male	-	100-240 VAC (47-63 Hz)
MGate MB3660I-8-2AC	8	DB9 male	2 kV	100-240 VAC (47-63 Hz)
MGate MB3660I-16-2AC	16	DB9 male	2 kV	100-240 VAC (47-63 Hz)
MGate MB3660-8-J-2AC	8	RJ45	-	100-240 VAC (47-63 Hz)
MGate MB3660-16-J-2AC	16	RJ45	-	100-240 VAC (47-63 Hz)

# **Accessories (sold separately)**

### Cables

CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-RJ45F9-150	RJ45 to DB9 female serial cable, 1.5 m
CBL-RJ45SF9-150	RJ45 to DB9 female serial shielded cable, 1.5 m

#### Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
William BBOT to TB	BBO formato to torrima brook outmoster

### **Rack-Mounting Kits**

WK-45-01	Wall mounting kit 21 shaped plotos 6 serous 45 x 57 x 2.5 mm
VVN-45-01	Wall-mounting kit, 2 L-shaped plates, 6 screws, 45 x 57 x 2.5 mm

#### **Power Cords**

PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C13JP-3B-183	Power cord with Japan (JP) plug, 7A/125V, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m
CBL-PJTB-10	Non-locking barrel plug to bare-wire cable

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