MGate 5118 Series

1-port CAN-J1939 to Modbus/PROFINET/EtherNet/IP gateways



Features and Benefits

- Protocol conversion between J1939 and Modbus/PROFINET/EtherNet/IP
- Supports Modbus RTU/ASCII/TCP master/client and slave/server
- Supports EtherNet/IP Adapter
- Supports PROFINET IO device
- Supports J1939 protocol
- · Effortless configuration via web-based wizard
- · Built-in Ethernet cascading for easy wiring
- · Embedded traffic monitoring/diagnostic information for easy troubleshooting
- · microSD card for configuration backup/duplication and event logs
- · Status monitoring and fault protection for easy maintenance
- · CAN bus and serial port with 2 kV isolation protection
- -40 to 75°C wide operating temperature models available
- · Security features based on IEC 62443

Certifications



Introduction

The MGate 5118 industrial protocol gateways support the SAE J1939 protocol, which is based on CAN bus (Controller Area Network). SAE J1939 is used to implement communication and diagnostics among vehicle components, diesel engine generators, and compression engines, and is suitable for the heavy-duty truck industry and backup power systems. It is now common to use an engine control unit (ECU) to control these kinds of devices, and more and more applications are using PLCs for process automation to monitor the status of J1939 devices connected behind the ECU.

The MGate 5118 gateways support the Modbus RTU/ASCII/TCP, EtherNet/IP, and PROFINET protocols to support most PLC applications. Devices that support the J1939 protocol can be monitored and controlled by PLCs and SCADA systems that use the Modbus RTU/ASCII/TCP, EtherNet/IP, and PROFINET protocols. With the MGate 5118, you can use the same gateway in a variety of PLC environments.

Key-in-Free J1939 Command

The J1939 protocol is designed to retrieve a wide range of data from CAN-J1939 devices. To eliminate the need to key in all J1939 commands into the gateway by hand, MGate 5118 gateways can auto detect the output commands used by the CAN device.

With a single click in the web console, all of the output commands from your CAN device will be detected by the gateway automatically. The commands will be displayed in the web console's command list, and then can be further modified by the user if needed. The MGate 5118 gateways make it much easier for users to connect PLCs with CAN devices.

A Variety of Maintenance Functions

The MGate 5118 gateways support a web console for easy configuration and maintenance, and the built-in traffic monitor function monitors J1939 protocol traffic, allowing users to monitor the status of connected CAN devices, including error count, packet count, and bus-offline. The traffic monitor function can also be used to troubleshoot CAN devices. The diagnostics tool helps users to check CAN device settings and indicates CAN device availability by reading the J1939 network address. In addition, the MGate 5118 gateways have a built-in Live List function for when two or more J1939 devices are connected to the same CAN bus. This function shows the PGN and address of packets transmitted from each device, giving users the ability to gage the loading of the CAN bus.

To detect loose cables, the MGate 5118 gateways support status monitoring and fault protection functions. The status monitoring function notifies a PLC when the cable between the gateway and CAN device is loose. In addition, the fault protection function executes actions predefined by the user when the cable between the gateway and PLC is loose.



Specifications

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	
Configuration Options	Web Console, Device Search Utility (DSU)
Industrial Protocols	EtherNet/IP Adapter (Slave), EtherNet/IP Scanner (Master), Modbus TCP Client (Master), Modbus TCP Server (Slave), PROFINET IO Device (Slave)
Management	ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP
MIB	MIB-II
Time Management	NTP Client
Serial Interface	
Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
No. of Ports	1
Connector	DB9 male
Serial Standards	RS-232/422/485
Baudrate	50 bps to 921.6 kbps
Data Bits	7, 8
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 2
Flow Control	RTS Toggle (RS-232 only), RTS/CTS
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
Isolation	2 kV
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-485-4w	Tx+, Tx-, Rx+, Rx-, GND
Serial Software Features	
Configuration Options	Serial Console
Industrial Protocols	J1939, Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave



Modbus RTU/ASCII	
Mode	Master, Slave
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Commands	128
Modbus TCP	
Mode	Client, Server
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Client Connections	16
Max. No. of Server Connections	32
Max. No. of Commands	128
PROFINET	
Mode	IO Device (Slave)
Max. No. of IO Controller Connections	1 (for read/write)
Input Data Size	512 bytes
Output Data Size	512 bytes
EtherNet/IP	
Mode	Scanner, Adapter
CIP Objects Supported	Identity, Message Router, Assembly, Connection Manager, TCP/IP interface, Ethernet link, Port
Max. No. of Scanner Connections	1 (for read-only), 1 (for read/write)
Max. No. of Adapter Connections	4
Input Data Size	496 bytes
Output Data Size	496 bytes
CAN Interface	
Industrial Protocols	J1939
No. of Ports	1
Connector	Spring-type Euroblock terminal
Baudrate	250 kbps, 500 kbps
Terminator	120 ohms
Isolation	2 kV (built-in)
J1939	
Max. No. of Commands	256
Input Data Size	2048 bytes
Output Data Size	2048 bytes
Memory	
microSD Slot	Up to 32 GB (SD 2.0 compatible)



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Warranty Period 5 years	Standards	Telcordia SR332
	Warranty	
Details See www.moxa.com/warranty	Warranty Period	5 years
	Details	See www.moxa.com/warranty



Package Contents

Device	1 x MGate 5118 Series gateway
Installation Kit	1 x DIN-rail kit
Documentation	1 x quick installation guide 1 x warranty card

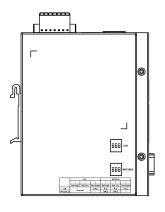
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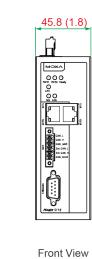
R5-222 Console <u>د بالمحموم</u> دیکانیکاریا

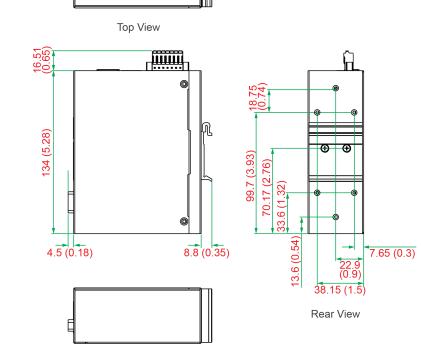
Dimensions

Unit: mm (inch)



Side View





Ordering Information

Model Name	Operating Temp.
MGate 5118	0 to 60°C
MGate 5118-T	-40 to 75°C

Accessories (sold separately)

CBL-F9M9-150DB9 female to DB9 male serial cable, 1.5 mCBL-F9M9-20DB9 female to DB9 male serial cable, 20 cmCBL-RJ45F9-150RJ45 to DB9 female serial cable, 1.5 m	Cables	
	CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-RJ45F9-150 RJ45 to DB9 female 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	CBL-RJ45SF9-150	RJ45 to DB9 female serial shielded cable, 1.5 m
Connectors	Connectors	
Mini DB9F-to-TB DB9 female to terminal block connector	Mini DB9F-to-TB	DB9 female to terminal block connector

Wall-Mounting Kits



Power Cords

CBL-PJTB-10

Non-locking barrel plug to bare-wire cable

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