

# MaxGate600-2GT-LTE-8D485-8IO

DIN-Rail ARM Cortex-A8 Industrial Intelligent Gateway



- Support 2\*1000M copper ports, 1\*4G LTE antenna interface, 8\*RS485 serial ports (with 8 DC12V outputs) and 8 I/O ports (1 DI+2 DO+5 AI)
- Support multiple network protocols, built-in TCP/IP protocol stack
- Support single AC85~264V / DC110~370V AC/DC power supply, single DC12V backup power supply, and support dual power supply redundancy
- High-strength aluminum alloy casing, IP40 protection level, fanless casing for heat dissipation, the equipment can reliably work in harsh industrial environments of -40°C~+75°C



## Product Description

MaxGate600-2GT-LTE-8D485-8IO is a Din-rail ARM Cortex-A8 industrial intelligent gateway carefully designed by Wuhan Maiwe Communications Co., Ltd. It supports 2\*1000M copper ports, 1\*4G antenna, 8\*RS485, 8\*I/O ports, 1\*USB2.0 interface; adopts high-performance and low-power 32-bit ARM Cortex-A8 processor with a main frequency of 1GHz, equipped with 1GByte DDR3, 8GByte eMMC, 64MByte SPI Nor Flash, based on Medip-X3 The platform is designed to run smoothly, and with abundant hardware resources and a variety of peripheral interfaces, the data collected by the terminal device can be transmitted through the network ports of two independent IP network segments of the device or on the 4G cellular network.

This product has rich protocols, strong stability, good tailorability and scalability, comprehensive support for various communication interface drivers, and support a variety of hardware platforms and architectures; it provides onboard 8GByte eMMC storage and external USB2.0 HOST interface, which facilitates customers' secondary development, has the possibility of application self-recovery, and can realize system redundancy function through multiple backup methods. The product provides AD220V power supply and interface with DC12V backup power supply, which facilitates flexible configuration of on-site power supply. The hardware adopts high-standard industrial protection design, selects industrial-grade components, and uses high-strength aluminum alloy casing, which is sturdy and durable; low power consumption, wide temperature design, fanless casing heat dissipation, support -40°C~+75°C operating temperature, passed strict safety regulations and EMC testing meet the application requirements of harsh industrial environments. Products can be widely used in industrial automation, integrated energy, smart cities, smart transportation, smart mines, smart factories and other fields.



## Features and Benefits

- Using 32-bit ARM Cortex-A8 processor with a main frequency of up to 1GHz
- Based on Linux4.0 or above kernel
- Support 1GB DDR3 memory and 8GB eMMC storage
- Support multiple file systems and multiple network protocols
- Support image upgrade function
- Support network card, serial port, RS485, GPIO, eMMC, SPI, I2C, RTC, built-in Watchdog, USB and other drivers, and provides application layer programming sample code and a general cross-compilation environment to facilitate secondary development
- 2\*1000M copper ports support independent IP and MAC addresses
- Support simple WEB page management and can develop customized WEB interfaces for secondary use
- Support 4G cellular wireless network, compatible with 3G/2G



## Specification

System Information	
Processor	ARM Cortex-A8 32-Bit, clocked at 1GHz
OS	Openwrt-18.06 (Linux4.9.184 kernel)
Memory	1GB DDR3
Storage	8GB eMMC
Software	
Network	Domain name resolution DNS, DHCP, static IP functions 4G full network dial-up Internet access, support operator private network APN.
System	Network diagnostic function: Support Ping, Traceroute, Tcpdump (network packet capture tool)
Other	Support SSH and TELNET login Support FTP,SCP, NTP, DHCP, TFTP and other protocols
4G Cellular Network	
Network Format	LTE-FDD,LTE-TDD,WCDMA,GSM
Working Frequency	LTE-FDD: B1/3/5/8 LTE-TDD: B34/38/39/40/41
Maximum Transfer Rate	LTE: <ul style="list-style-type: none"> <li>• LTE-FDD: DL 150Mbps/ UL 50Mbps</li> </ul>

## ☑☑☑ Specification

Maximum Transmit Power	LTE-FDD/TDD: 23dBm±2dB WCDMA:24dBm+1/-3dB DCS1800:30dBm±2dB EGSM900:33dBm±2dB
Receive Sensitivity	LTE-FDD:-98.1dBm(B1)/ -97.1dBm(B3)/ -98.9dBm(B5)/ -97.4dBm(B8) LTE-TDD:-96.6dBm(B34)/ -96.7dBm(B38)/ -97.6dBm(B39)/ -97.4dBm(B40) / -95dBm(B41) WCDMA:-109.4dBm(B1) / -109.7dBm(B5) / -110.2dBm(B8) DCS1800:-107dBm EGSM900:-109dBm

### Interface

1000M Copper Port	2* 10/100/1000Base-T(X) auto-sensing copper ports, supporting full/half duplex, auto MDI/MDI-X, each copper port has independent IP and MAC address
Serial Port	Serial port type: 8 RS485 Connection method: RJ45
DI Digital Input	Number of channels: 1 DI input Connection method: 3.81mm pitch 6PIN terminal block, DI occupies 2 positions
DO Digital Output	Number of channels: 1 DI input Connection method: 3.81mm pitch 6PIN terminal block, DI occupies 2 positions
AI Analog Input	Number of channels: 5 AI inputs Input mode: voltage mode
Antenna Interface	1 SMA-K (external thread internal hole) antenna Interface, used to connect 4G cellular antennas.
SIM Card	1 standard SIM card (1.8V/3V) slot, Support China Mobile/China Unicom/Telecom 4G, China Unicom 3G, China Mobile/China Unicom 2G (small card needs to be used with a
CONSOLE	1 CONSOLE port, RS232 signal RJ45 port, used for device debugging and command line configuration
USB	1 Type-A USB 2.0 interface (HOST), expandable storage
Buttton	Restart or restore factory settings with one click
Indicator	Power indicator, running indicator, 4G indicator, WiFi indicator, serial port indicator, electrical port speed and connection/activity indicator light

### Power Supply

Power Input	Single AC85~264V / DC110~370V power input, 2 PIN AC socket (8-shaped); Single DC12V (DC9~18V) DC power input, which can be used for external battery input, DC round head; When dual power supplies are input at the same time, power supply redundancy is supported
Power Output	9*DC 12V power output, 8 of which share RJ45 with the RS485 serial port, can be used to power serial port terminal equipment; 1 channel uses a 3.81mm pitch 6PIN terminal block, the power supply occupies 2 positions, and can be used to power IO terminal equipment; 9 channels of power output total power < 7.2W@DC12V

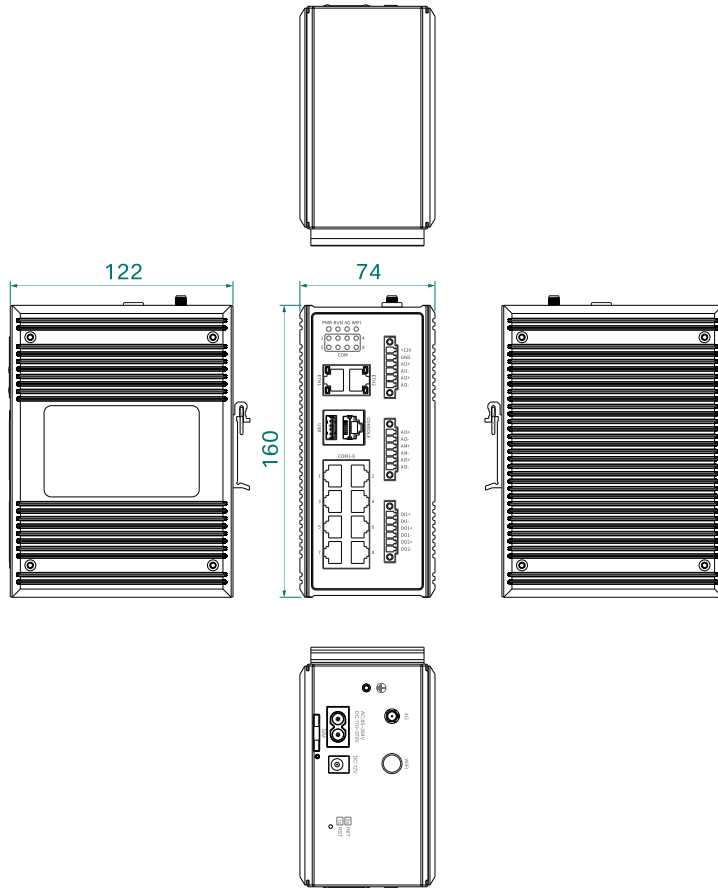
## Specification

Consumption	<5.5W@AC220V (excluding DC12V output load)
<b>Physical Characteristics</b>	
Dimension	160×74×122(mm)(excluding rails)
Installation Method	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	About 1.1kg (excluding antenna)
<b>Working Environment</b>	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
<b>Industry Standard</b>	
EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (power supply: common mode ±2kV, differential mode)
Certification	CE, FCC, RoHS



## Installation Dimensions

Unit:mm(first angle projection)





## Ordering Information

Standard Model	1000M Cooper Port	4G Antenna Interface	RS485	DI	DO	AI	Input Voltage
MaxGate600-2GT-LTE-8 D485-8IO-AD220	2	1	8	1	2	5	AC85~264V / DC110~370V

## Contact Us

### Wuhan Maiwe Communication Co., Ltd

Address: No.52 Liufang Avenue, East lake High-tech Development Zone, Wuhan, China.

Tel: 027-87170217

Mail: [enquiry@maiwe.com](mailto:enquiry@maiwe.com)

Official site: [www.maiwe.com](http://www.maiwe.com)

Copyright © Maiwe Communication All rights reserved.