



MEG5000 robustos

Modular Edge Gateway for IoT Control Card + Expansion Card 1+ Expansion Card 2



INTRODUCTION

MEG5000, Robustel Modular Edge Gateway for Internet of Things (IoT), is a most configurable and manageable cellular gateway. The MEG5000 features three scalable cards supporting various interfaces to meet changing demands for industrial IoT applications. It is developed to provide application of calculation, and performs real-time data analysis and intelligent processing at the edge of sensor, which is more effective and secure. With quick-to-deploy and easy-to-customize, the MEG5000 gateway can be tailored to your industrial needs.

MEG5000 is a powerful gateway developed from **RobustOS**, a Robustel self-developed and Linux-based operating system which is designed to be used in Robustel devices. The RobustOS includes basic networking features and protocols providing customers with a very good user experience. Meanwhile, Robustel offers a **Software Development Kit** (SDK) for partners and customers to allow additional customization by using C, Python or Java. It also provides rich **Apps** to meet fragmented IoT market demands.

Robustel is a leading global industrial IoT/M2M hardware and solution provider. Since its establishment in 2010 in Guangzhou, China, Robustel has been focusing on designing and manufacturing industrial cellular routers, gateways, modems, cloud platforms and E2E solutions. In order to support global business in more than 100+countries and regions, Robustel has set up local offices in Germany, Australia, the Netherlands, the UK, Japan and Hong Kong.

KEY FEATURES

- Flexible interfaces supporting numerous industrial applications
- High performance, high reliability and high throughput for data processing
- Quick customization meeting rapid market promotion
- Custom development based on integrated Linux environment, and providing edge computing power
- Embedded mSATA SSD providing data logging
- > Real-time running temperature
- > RobustOS + SDK + App
- IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- The option Backup Mode supporting cold, warm and load balancing
- Event/Alarm management with notification (SMS, e-mail, DI/DO, SNMP trap or RobustLink)
- Robust industrial design (12 to 60V DC, desktop or wall mounting or DIN rail mounting)

PLUG-IN CARDS



Control Card

- 2 x cellular SMA antenna
- 4 x WiFi antenna
- 6 x LED indicator
- 2 x SIM slot
- 1 x Gigabit WAN port/ Gigabit Fiber
- 1 x 3-pin power interface



Expansion Card 1

- 8 x Megabyte LAN Ethernet
- 1 x mSATA SSD



Expansion Card 2

- 1 x RUN LED indicator for card running status
- 1 x GPS antenna
- 2 x RS-232
- 2 x Digital Input
- 2 x Digital Output
- 1 x CAN
- 1 x RS-485



SPECIFICATIONS

Cellular Interface

Number of antennas 2 (MAIN + AUX)
Connector SMA, female
SIM slot 2 (3 V & 1.8 V)

Standards GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/

HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA

1X/EVDO)/FDD LTE/TDD LTE

Ethernet Interface

Number of ports 1 x 10/100/1000 Mbps WAN (ETH0) +

8 x 10/100 Mbps LAN (ETH1~ETH8)

Magnet isolation 1.5 KV

protection

WiFi Interface

Number of antennas Support up to 4 antennas (WiFi1 + WiFi2 +

WiFi3 + WiFi4)

Connector RP-SMA, male

Standards 802.11a/b/g/n/ac, supporting AP and Client

modes

Frequency bands 2.4 GHz

5 GHz

Security Open, WPA, WPA2, WEP
Encryption AES, TKIP, WEP64, WEP128

Data speed Up to 1300 Mbps

Device Interface

GPS/GLONASS 1 x GPS/GLONASS, SMA, female(Optional)
Serial port 2 x RS-232 + 1 x RS-485 + 1 x CAN

DI/DO 2 x Digital Input + 2 x Digital Output

Others

Reset button 1 x RST

LED indicators 1 x RUN(Main control card),1 x RUN(Expansion

Card 2);, 1 x MODEM, 1 x USR, 3 x RSSI 1 x Link indicator + 1 x Speed indicator for each

Ethernet port

Software (Basic features of RobustOS)

Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP,

HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN,

SSH2, DDNS, etc

VPN tunnel IPsec, OpenVPN, GRE

Firewall DMZ, anti-DoS, Filtering (IP/Domain name/

MAC address), Port Mapping, Access Control

Management Web, CLI, SMS

Serial port Transparent, TCP Client/Server, UDP, Modbus

RTU Gateway

App Center (Available Apps for RobustOS)

Apps L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS,

SNMP, Language, RobustLink

*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector 3.5 mm terminal block with lock

Input voltage 12 to 60V DC

Input current 12V@3A, 24V@1.5A

Physical Characteristics

Ingress protection IP30

Housing & Weight Metal, 1600 g

Dimensions 157 x 145 x 89 mm

Installations Desktop, wall mounting and 35 mm DIN rail

mounting

Approvals

Environmental RoHS, WEEE

ORDERING INFORMATION

Model	MEG5000-4L	MEG5000-NU
Gateway Type	LTE gateway	
Antenna Number	2	
Air Interface	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+/	
	TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE	
Frequency Bands	AU: B1/B2/B3/B4/B5/B7/B8/B28, B40	
4G	EU: B1/B3/B7/B8/B20/B28/B31, B38/B40	
	US: B2/B4/B5/B13/B17/B25, B41	
	JP: B1/B3/B8/B9/B18/B19/B21/B28, B41	
	CN: B1/B3, B38/B39/B40/B41	
3G	WCDMA/HSDPA/HSUPA/HSPA+/DC-HSPA+: B1/B2/B5/B6/B8/B9/B19	
	TD-SCDMA: B34/B39	
	CDMA (CDMA 1X/EVDO): R0/A BC0/BC1/BC10	
2G	850/900/1800/1900 MHz	
Operating Environment	-40 to +65 °C/-10 to +65 °C(with Wifi)/5 to 95% RH	-40 to +65 °C/-10 to +65 °C(with Wifi)/5 to 95% RH

^{*}For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.



Email: info@robustel.com | Website: www.robustel.com
©2019 Guangzhou Robustel LTD
All rights reserved. Subject to change without notice.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660