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MEG5000 robust

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, C++. It also provides rich **Apps** to meet fragmented IoT market demands.

Robustel is a famous 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 UK, 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)

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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		Software (Basic features of RobustOS)	
Number of antennas Connector SIM slot	2 (MAIN + AUX) SMA, female 2 (3 V & 1.8 V)	Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc
Standards	GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/ HSPA+/DC-HSPA+/TD-SCDMA/CDMA (CDMA 1X/EVDO)/FDD LTE/TDD LTE	VPN tunnel Firewall	IPsec, OpenVPN, GRE DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control
Ethernet Interface		Management	Web, CLI, SMS
Number of ports	1 x 10/100/1000 Mbps WAN (ETH0) + 8 x 10/100 Mbps LAN (ETH1~ETH8)	Serial port	Transparent, TCP Client/Server, UDP, Modbus RTU Gateway
Magnet isolation	1.5 KV		
protection		App Center (Available Apps for RobustOS)	
Wi-Fi Interface		Apps	L2TP, PPTP, DMVPN, RobustVPN, VRRP, QoS,
Number of antennas	Support up to 4 antennas (WiFi1 + WiFi2 + WiFi3 + WiFi4)	*Request on demand. Fo	SNMP, Language, RobustLink or more Apps please visit www.robustel.com.
Connector	RP-SMA, male	Power Supply and Consumption	
Standards	802.11a/b/g/n/ac, supporting AP and Client modes	Connector	3.5 mm terminal block with lock
Frequency bands	2.4 GHz	Input voltage	12 to 60V DC
	5 GHz	Input current	12V@3A, 24V@1.5A
Security Encryption	Open, WPA, WPA2, WEP AES, TKIP, WEP64, WEP128	Physical Characteristics	
Data speed	Up to 1300 Mbps	Ingress protection	IP30
Device Interface		Housing & Weight	Metal, 1600 g
GPS/GLONASS	1 x GPS/GLONASS, SMA, female(Optional)	Dimensions	157 x 145 x 89 mm
Serial port	2 x RS-232 + 1 x RS-485 + 1 x CAN	Installations	Desktop, wall mounting and 35 mm DIN rail
DI/DO	2 x Digital Input + 2 x Digital Output		mounting
Others		Approvals	
Reset button LED indicators	1 x RST 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	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.

