

## CAIMORE Communication--M2M Industrial Wireless GPS GPRS RTU Router



Model No.	CM550-55G(GPRS)
<b>Cellular Parameters:</b>	
<b>Item</b>	<b>Content</b>
Cellular	GPRS/GSM
Standards and Frequency Bands	Support EGSM900/GSM1800MHz dual band, GSM800/900/1800/1900MHz four band (optional). Support GSM phase 2/2+ Support GPRS multi-slot class 10. Class 12(optional)
Coding Scheme	CS1~CS4
Communication Bandwidth	the theory of broadband : 171.2Kb/s; the actual broadband : 100Kbits>X>20Kbits/s
Transmit Power	GSM850/900: <33dBm; GSM1800/1900: <30dBm
Receiver Sensitivity	<-107dBm
<b>GPS Parameters</b>	
<b>Item</b>	<b>Content</b>
Wireless Module	Industrial GPS wireless module
Receiver Types	Accept the global positioning system, 50 channels, L1 frequency, 1.023 MHZ chip speed, C/A code 1.023 MHZ chip speed ; Support SBAS: WAAS,EGNOS,MSAS, also can be compatible with GALILEO.
Capture Time	Cold boot: 27S; Secondary boot:<3sec.; warm boot: <1sec.
Data Format	NMEA-1083,SiRD binary system
Input Information	NMEA, SiRF binary system height/location/date/time
Output Information	NMEA-0183,SiRF binary system, GGA GSA GSV RMC VTG GLL
<b>Hardware system:</b>	
<b>Item</b>	<b>Content</b>
CPU	Industrial CPU, stable and reliable performance
MMU	CPU with MMU memory management unit, can prevent memory overflow exception
Flash	128Mbits, a large enough memory to store programs and data
SDRAM	1024Mbits, a large enough cache to improve system operation speed
<b>Operating System:</b>	
<b>Item</b>	<b>Content</b>
Operating System	Using LINUX2.6 operating system with memory management unit and real-time feature, upgrades is very fast and system is stable;

**Interface Type:**

Item	Content
Serial port	1 RS232 serial port (supports RS422/TTL)  Data bits: 5,6,7,8 bit  Stop bits: 1, 1.5,2 bit  Parity: none, odd , even , space and mark  Baudrate: 110bps ~ 115200bps
Ethernet	1xLAN(One 10/100 Base-T Ethernet ports), Ethernet IEEE 802-3, 802-2; built-in 1.5KV magnetic isolation protection.
USB	1xUSB, USB2.0, HOST interface, speed at 12Mbps
Indicator	“POWER”, “Link / ACT”,“COMM” and “ONLINE”
Antenna Interface	Standard SMA female interface, 50 ohm; optional 3M/5M/10M/15M antenna extension cable, meet the different needs of customers.
UIM interface	1.8V/3V/5V standard putter user card interface, built-in 15KV ESD protection
Power Interface	Block interface,power supply over-voltage protection and reverse current protection.
Analog input	Resolution:16 bit,input voltage(-10V-+10V),input current(0-20mA),sampling rate(1.365kSPS),Accuracy±0.5% or better
Switch input	Input range(0-3.3V low level,5-30V high level)conatins all the way count function(1KHz)
Relay output(dry contact)	Drive ability 5A/30VDC,5A/250VAC
Optocoupler digital output	Open collector output,Max 30V,max current 40mA,Max power 125mW
Optocoupler PWM output	Open collector output,Max 30V,max current 40mA,Max power 125mW,output frequency 0-1KHz,adjustable duty cycle
<b>Power supply:</b>	
Item	Content
Supply voltage	Wide voltage design, DC 7V to the DC32V power supply directly to the device; and built-in power supply over-voltage protection and reverse current protection
Standard power supply	DC9V/1.5A
Current while Communicating	Average communication current :200mA @ +9 VDC; Communicating instantaneous peak current: 1.0A @ +9 VDC
Standby current	Standby average current: 0.15A@+9VDC
<b>Physical features:</b>	
Item	Content
Shell	Metal shell: metal case, anti-radiation, anti-interference; shell and system security isolation, lightning protection design; meet the power requirements of safety regulations; protection rating IP30; particularly suit for harsh industrial control environments.
Product Dimensions	167*104*26mm(not including the antenna and the fixed parts)
Packing Size	350*215*88mm

Weight	0.52Kg
<b>Other parameters:</b>	
<b>Item</b>	<b>Content</b>
Operating Temperature	-25°C ~+75°C
Storage Temperature	-40~+85°C
Relative Humidity	95%(No condensation)
<b>Features</b>	
1,Support APN/VPDN	
2,Support double data center backup and multiple data center ( 8 data center) receiving data, the biggest number of sending center is up to 256	
3,Remote wakeup: support short message,voice,data etc wakeup method and overtime disconnect network	
4,Support center server fixed IP, when center adopts dynamic IP, it can support DDNS dynamic domain communication mode.	
5,Support 6 CH counter input,8 CH switch input,8 CH analog input,4 CH digital output,2 CH PMW output,4 CH relay output	
6,Support 1 RS232/RS485	
7,Support 1 Ethernet port,and USB(optional)	
8,Support extendable wireless RTU managment platform protocol	
9,Support remote configure,remote control and remote upgrade	
10,Support WEB configure	
11,Support telnet	
12,Support serial port software upgrade	
13,Support GPS/Compass(optional)	
14,Support Zigbee mesh network(optional)	
15,Support LINUX, UNIX and WINDOWS operating systems	
16, Support Modbus RTU and Modbus TCP/IP	