

CR3000



Embedded WCDMA UMTS/HSPA Module

Embedded GPS and GSM Antenna

RS485 Bus Compatible Custom Accessories

Multiple Digital Input, Anlage Input and Output

CR3000 is a GPS location service supplier for vehicle. It provides superior sensitivity up to -165dBm and fast Time-To-First-Fix GPS application and support dual-Band GSM/GPRS/EDGE and dual-band UMTS/HSPA. The device could be monitored by backend server or other specified terminals.

CR3000 has multiple input/output interfaces that can be used to monitor vehicle status or control external device. User can setup device working parameter by PC setup program base on personality application.

CR3000 embedded with high sensitivity GPS antenna and GSM antenna.

CR3000 has RS485 bus, support fuel sensor, camera and other custom accessories.

Advantages:

- ◇ Dual-Band GSM/GPRS/EDGE and dual-band UMTS/HSPA
- ◇ High sensitivity -165 dBm (Tracking)
- ◇ Embedded GPS and GSM Antenna
- ◇ RS485 Bus Compatible Custom Accessories
- ◇ Multiple Digital Input, Anlage Input and Output
- ◇ Internal Battery, 3.7V, 500mAh
- ◇ DC Tolerance voltage, from 8V to 32V

◇ GSM Specifications

Frequency	EGSM900MHz,DCS1800MHz WCDMA2100/900MHz. Compliant to GSM phase 2/2+ –Class 4 (2 W @ 850/900MHz) –Class 1 (1 W @ 1800/1900MHz) –Class 3(0.25W @WCDMA)
Receive sensitivity	EGSM900 < -109dBm DCS1800 < -110dBm WCDMA B1 <-110dBm WCDMA B8 <-108dBm
Stability of Frequency	<2.5ppm

◇ GPS Specifications

GPS chipset	MT3337 GPS chipset
Receiver Accuracy	Without aid:3.0 M 2D-RMS DGPS(WAAS, EGNOS, MSAS, RTCM):2.5 M
Time to First Fix	Hot start < 1 sec. Warm start < 30 sec. Cold start < 31 sec.
Sensitivity	- 165 dBm (Tracking)

◇ Interfaces

GPS antenna	Internal and external, switch automatic
GSM antenna	Internal only
Internal Indicator LED	Internal, GPS,GSM, Power status
Digital Input	3
Anlage Input	2
Output	3
RS485 Bus	Camera, RFID reader and Compatible Custom Accessories
PC Setup Interface	Update firmware and setup device

◇ General Specifications

Device Mechanics	108mm(L)*74mm(W)*32mm(H)
DC Tolerance	8V to 32V
Battery	Li-Po 3.7V 500mAh
Current	GPRS online 40mA

	GPRS transmit 80mA GPRS peak 120mA
Operating temperature	-20 to 60 °C

◇ Communication Protocol

Transmit protocol	TCP,SMS
Alarm Report	ACC trigger Power cut Tow report Speeding
Special Report	PTO Fuel level Flow meter
Picture upload	FTP protocol
Firmware Update	Over the Air