



GV500 WCDMA OBD Vehicle Device

- Dual Band UMTS / HSDPA and Quad Band GSM / GPRS / EDGE
- Compact Design, Plug to Install
- Vehicle Status Monitoring from OBD Port
- AT&T Certified WCDMA Module

More Information

www.fractal.com



GV500

WCDMA OBD Vehicle Device

UMTS/HSDPA Specifications

Frequency	Dual band : 850 (Band V) / 1900 (Band II) Compliant to WCDMA
Max Out RF Power	21.5 ~ 24.5 dBm
Min Out RF Power	< -50 dBm
Dynamic Input Range	-25 ~ -108 dBm
Receiving Sensitivity	850 (Band V) -110 dBm 1900 (Band II) -108.5 dBm
Max Frequency Error	±0.1 ppm

GSM Specifications

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	Autónomo: -147 dBm Readquisición: -160 dBm Rastreo: -162 dBm
RMS Phase Error	Autónoma: < 3m SBAS: 2.0m
Dynamic Input Range	Cold start: 25s en promedio Warm start: < 25s Hot start: < 1s
Receiving Sensitivity	Class II RBER 2% (-107 dBm)
Stability Of Frequency	< 2.5 ppm
Max Frequency Error	± 0.1 ppm

GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Tracking: -162 dBm
Position Accuracy	Autonomous: < 3.0m SBAS: 2.0ms
TTFF (Open sky, plug into OBDII port, AGPS)	Cold start: 25s average Warm start: < 25s Hot start: < 1s

Interfaces

OBDII Port	Allows information to be read from OBDII port, also provides device power. Protocols support: J1850 PWM, J1850 VPW, ISO 9141-2, ISO 14230, ISO 15765, J1939, CAN_USER1, CAN_USER2, VW TP2.0
UMTS / HSDPA / GSM Antenna	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and OBD
Mini USB Port	Mini USB port for upgrade and debug

General Specifications

Dimension	48 mm - 25 mm - 48 mm
Weight	About 51g
Backup Battery	Li-Polymer 250 mAh
Standby Time	Without reporting: 28 Hours
Operating Voltage	8V a 32V DC
Operating Temperature	-30 C ~ +80 C (without battery) -40 C ~ +85 C for storage (without battery)

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at pre-set intervals
OBDII Disconnection Alarm	Alarm report of OBDII connection and disconnection status
Geo-fence	Geo-fence alarm and parking alarm
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
Tow Alarm	Alarm trigger based on built in 3-axis accelerometer

