



BLUETREE WIRELESS DATA

Simple. Reliable. Wireless modems

BlueTree Wireless Data Inc. is a leading developer and manufacturer of wireless modems and software solutions for commercial and industrial applications. BlueTree Wireless's modems are designed to operate on cellular data networks worldwide enabling M2M applications in the Public Safety, Fleet Management, Field Service, SCADA and Telemetry markets.

GPS 5400 GPRS



Product Features

- ▶ **Dual Band: 850/1900 MHz**
- ▶ **Dual Mode: GSM & GPRS**
- ▶ **Rugged Design Standards**
Military (MIL-STD-810F) and Automotive (SAE J1455)
- ▶ **Multiple Interfaces:**
Serial, USB & Ethernet
- ▶ **Integrated Trimble Lassen™ GPS Module**
TAIP and NMEA 0183 GPS protocols
- ▶ **BlueVue Management Software**

Embedded Trimble Lassen™ GPS Module

The embedded, energy efficient Trimble Lassen™ GPS Module receiver in the GPS 5400 supports TAIP and NMEA 0183 message protocols. This feature makes this wireless modem ideal for deployment in Automatic Vehicle Location (AVL), Intelligent Transportation Systems (ITS) as well as public safety and field service applications. Used to track the geographic location of vehicles, assets are better managed and personal safety of personnel is increased.

Multiple Interfaces: Serial, USB & Ethernet

The RS-232 (DB9) serial interface allows the GPS 5400 modem to connect to any computer using a standard cable. The USB interface allows for connectivity to a like computing device using a standard USB adapter cable. With a standard network adapter interface the GPS 5400 can connect to an Ethernet computing device.

5000 GPS Series

The BlueTree 5400 GPRS is a smart, rugged wireless modem built to provide simple and reliable communications over the cellular GSM (GPRS) data network. As part of the 5000 GPS Series, it is designed for mobile computing applications in the Public Safety & First Responders, Fleet Management, and Field Service Automation markets.

Unique GPS Features

The GPS 5400 wireless modem has two unique capabilities. One feature allows the modem to send the GPS position of the modem over the wireless network to a host server and as well as to a mobile computer that is attached to the modem with off-the-shelf or custom mapping software. The second feature, providing standalone GPS capability, leverages the embedded intelligence and programming capabilities of the modem to collect, store and forward GPS position data, without the need to attach a computing device. The modems can also manage the reporting of GPS data when in and out of wireless coverage to ensure customers have accurate tracking data.

Inputs & Outputs for Remote Management and Event Reporting

Sensors can be connected to the I/O port of the GPS 5400 modem (4 digital inputs, 3 digital outputs and 3 analog inputs). This allows fleet management and public safety applications to remotely trigger an output of the modem to turn ON or OFF peripheral equipment. The modem has the capability to monitor its digital input sensors for any change in state, and send a report to a remote server based on an event trigger (such as a panic button or ignition ON/OFF). The analog inputs allow monitoring of gradient data sources (such as a temperature sensor and low voltage indication). The modem has an intuitive embedded Event Reporting Protocol that automatically formats the messages reported to the remote server..



Automatic Vehicle Location (AVL)



Intelligent Transportation Systems (ITS)



Public Safety



Field Service



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BlueTree Service and Support

BlueTree Wireless Data is committed to providing responsive, accurate and professional support that ensures a positive customer experience. All of our products are covered under our standard warranty program and for more comprehensive coverage our extended warranty plans provide enhanced services and features. Delivering on our commitment to provide outstanding pre and post sales support, the dedicated BlueTree Customer Solutions Team works to meet our promise of our simple, reliable, wireless modems and data solutions.

BlueVue Management Software

By combining the power of graphical client software with the embedded intelligence inside the modem's firmware, the GPS 5400 can easily be configured, monitored and managed using a local cable connection or a remote wireless data connection.



Product Specifications for GPS 5400

Product Features	Dual Band 850/1900Mhz, GSM (release 99), GPRS (Multislot class 10), PBCCH Support
Frequency Bands	Transmit: PCS1900: 1850 to 1910 MHz, GSM850: 824 to 849 MHz Receive: PCS1900: 1930 to 1990 MHz, GSM850: 869 to 894 MHz
Host Interface	1x RS-232 Serial (DB9), 1x Ethernet (RJ45), 1x USB 1.0 (Device - Type B)
Data Rates	Supports: 115 Kbps (Class 10) Typical: 40-50 Kbps
Programming/Setup	BlueVue Management Software, AT commands, PPP, UDP/TCP Serial-IP
Inputs & Outputs	1x Reset Button, 2x Digital Outputs, 2x Analog Inputs, 4x Digital Inputs
LED Status Indicators	8 LED Lamps: PWR, TX, RX, DTR, REG, LINK, ACT, GPS
Enclosure & Weight	Extruded Aluminum - 166 x 127 x 56 mm (6.55" x 5.00" x 2.20") - 500g (1.1 lbs)
Antenna Connection	Cellular: TNC Female Connector, 50 ohms GPS: SMA Female Connector (3v active antenna)
Power Input	7 - 30 Volts DC (12 Volts DC is nominal) <> 4 pin Molex (Positive, Ground & Ignition Sense)
Power Consumption @ 12Vdc	1 Watts (Class 1) @ 1900Mhz (Avg: 225 mA) (Peak: 508 mA) 2 Watts (Class 4) @ 850Mhz (Avg: 236 mA) (Peak: 646 mA) Idle Mode: 59 mA is typical
Special Features	Integrated Trimble' Lassen™ GPS Module; supports TAIP and NMEA 0183 message protocols
Environmental Specifications	Government, Military and Automotive Industry Specifications (MIL-STD-810F, 202G and SAE J1455) Tests Performed: Extreme Temperature, Humidity, Physical Impact and Vibration Operating Temperature: -30° to +70° C (-22° to +158° F) Storage Temperature: -40° to +85° C (-40° to +185° F) Humidity: 95% non-condensing
Operating System Support	Microsoft Windows 2000, XP and CE (Dial up Networking (DUN))
Certifications & Approvals	FCC, Industry Canada and PTCRB

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