



BlueTree BT-5800 HSPA



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Mobile Data Applications

- Mobile Resource Management (Mobile computing)
- Public Safety (Police, Fire, Ambulance & EMS)
- Transit
- Field Force Automation

Product Highlights

- Always-on high-speed wireless connectivity
- Latest 3G technology - GSM HSDPA & HSUPA with 14.4 Mbps peaks
- Multiple interfaces: Ethernet, USB and Serial
- Rugged design standards: Military (MIL-STD-810F), Automotive (SAE J1455)
- High sensitivity GPS with augmentation system
- TAIP and NMEA GPS protocols
- General purpose Inputs and Outputs
- Advanced event reporting engine
- Remote device management

Benefits

- Provides ubiquitous cellular coverage with no maintenance fees
- Improves emergency response time
- Mobile transmission of patient data
- Increases worker's safety by optimizing communication with dispatch center
- Improves incident management and route planning
- Provides broadband connectivity to multiple devices in the vehicle

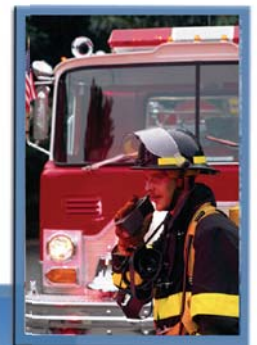
The **BT-5800** is a rugged 3G modem that offers internet connectivity over the cellular network to in-vehicle applications. Whether to issue violations, look up license plates, report status of accidents, transmit patient data, or enhance dispatch, the BT-5800 provides mobile workers a continuous real-time link for their bandwidth demanding and mission critical mobile data applications.



GPS Features

Embedded GPS makes this wireless modem ideal for deployment in Public Safety and First Responders applications as well as in Automatic Vehicle Location (AVL), Intelligent Transportation Systems (ITS) and field service automation applications. Used to track the geographic location of vehicles, assets are better managed and safety of personnel is increased.

- Performance: enhanced sensitivity GPS receiver with augmentation system, providing a fast time to first fix and accuracy within 2 meters.
- Multiple destinations: ability to send GPS positions over the wireless network to multiple server destinations, and to a local mobile computer at the same time.
- Multiple protocols: support of industry standard TAIP and NMEA, along with BlueTree's BEP (BlueTree Event Protocol).
- Standalone mode: 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.
- Store and Forward: managing the reporting of GPS data when in and out of wireless coverage to ensure customers have accurate tracking data.



Simple. Reliable. **Wireless modems.**



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BT-5800



Unique Cellular Coverage

The modem incorporates a second cellular antenna connection for diversity. When used in conjunction with the main antenna, receiver sensitivity is improved resulting in increased connectivity, coverage and reliability.

General Purpose Inputs and Outputs

Featuring 10 GPIOs and 1 dedicated Ignition Sense for vehicle telemetry:

- 3 Digital Outputs that can be turned ON or OFF on command, or automatically when an event is triggered – allowing for remote control of sirens, door locks, and other.
- 4 Digital inputs allow monitoring of vehicle sensors such as doors, parking brake, or panic buttons.
- 3 Analog inputs can be employed to measure a variety of special purpose gradient sensors such as temperature of a refrigerated vehicle or level of a battery.
- Vehicle Ignition ON/OFF notification
- Low voltage alert

Event Reporting Engine

By monitoring signals such as position/velocity, IOs and cellular state, the modem can report a variety of events to a server application:

- Time-based and or distance-based real-time tracking
- Excessive speed & engine idling
- Report at different intervals depending on speed or input trigger
- Trip odometer
- IO state change or threshold reached

Remote Device Management

By offering remote over the air diagnostics, configuration & firmware upgrades, on-site visits to troubleshoot or perform changes are virtually eliminated – and the health of the fleet of deployed modems is more efficiently managed.

Multiple Interfaces: Serial, USB and Ethernet

Support of the three most commonly used data interfaces guarantees drop-in interoperability with any application equipment, current and future. Even more, all interfaces can be used simultaneously for over the air access to different vehicle terminals.

Specifications

Ethernet	1x RJ45 Ethernet 10/100 Mbps auto-sensing
Serial	1x RS-232 Serial DB9 at rates up to 115,200bps
USB	1x USB2.0 TypeB device port at rates up to 12 Mbps
LED Indicators	7x LEDs: Power, WAN, Signal, RS232 GPS, Ethernet Link & Activity
Inputs & Outputs	1x Reset Button 3x Digital Outputs 4x Digital Inputs 3x Analog Inputs 1x Ignition Sense
Dimensions	Aluminum 166 x 107 x 56 mm (6.5" x 4.2" x 2.2"), 498g (1.1 lb)
Power Voltage	8 - 30 VDC (12 and 24 nominal)
GPS	Accuracy: <2 meters (50%), <4 meters (90%) Acquisition: Hot Start = 3 s, Warm Start = 35 s, Cold Start = 38 s Sensitivity: Tracking = -160 dBm, Acquisition = -146 dBm Augmentation System: SBAS (WAAS, EGNOS)
Environmental	Operating Temp: -40 to +85 Celsius Humidity: 95% non-condensing Shock: MIL-STD-810F Vibration: MIL-STD_810F Automotive: SAE J1455

Software Tools

The BlueTree 5800v2 can easily be configured, monitored and managed using the following BlueVue software applications.

BlueVue Device Manager

For initial setup and configuration



BlueVue Monitor

Quick and easy diagnostic dashboard



Why Choose BlueTree?

BlueTree Wireless Data Inc. is a leading developer and manufacturer of wireless modems and software solutions for commercial and industrial applications. Blue Tree Wireless' 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. BlueTree Wireless Data Inc. is a division of SIXNET, LLC. "Imagine the possibilities!"

Simple. Reliable. Wireless modems.