



Piccolo Plus - The most innovative, most complete GPS unit for Fleet Management

Modular, easy to integrate and inexpensive to customize to your needs



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Piccolo Hybrid+ product specifications

Main Features

- Hybrid - Dual Mode operation for Trailer Tracking When the Piccolo Hybrid+ is wired to an external power source such as trailer connected to the cabin, the internal battery will be charged and the Hybrid+ will operate in real-time sending GPS say every minute. When the cabin disconnects from the trailer the external power is disconnected and the Hybrid+ will automatically switch to be powered by the internal battery and will switch to asset tracking mode (described below).
- Asset tracking mode of operation - can be preprogrammed to send the GPS location every XX hours (usually once a day) when the asset is in stop position. When vibration is detected the unit wakes up automatically and sends an alarm and switches to motion mode sending GPS every XX minutes for as long as the asset is in motion mode (usually every 60 minutes)
- Geofence mode of operation - the unit can change the frequency of transmitting GPS when entering a pre-configured geofence to be detected at first Hybrid+ wake up.
- The Hybrid+ sends notifications to the server when and where the external power is connected/disconnected.
- With every GPS message, the Hybrid+ sends to the server the battery level it currently operates on and current temperature inside the unit.
- Vibration sensor - for automatic security theft alarm and motion detection.
- Tow Detection - the unit detects when the vehicle is moving. Extremely low power consumption achieved by innovative battery management to preserve battery life
- Store and forward - the unit can store up to 5,000 events when out of cellular coverage then sends them automatically when back in cellular coverage.

Technical Specifications

- Network availability - 2 GSM / GPRS or Edge, 3G HSPA
- Frequency Bands - Quad-Band (European 900/1800/2100,American 850/1900/2100
- Enclosure ABSPC water proof IP67 enclosure, rated UL94V-0
- GPS - MTK 66 Channels
- Dimensions: 4.9" x 3.3" x 1.6" (125mm x 87mm x 41mm)
- Weight: 3.7oz (105g) without the batteries

Environmental Specifications

- Operating Temperature: -22° to 176° F (-30° to 80° C)
- Storage Temperature: -40° to 221° F (-40° to 105° C)
- Humidity: 0 to 99% 110F (40C), non-condensing
- Shock/Vibration/Mechanical: meets or exceeds EIA standard RS-316B 3G (operating), 20G (non \operating) XYZ 3 directions. Meets SAE J1455

Power source options

- Operated by Rechargeable battery - one 4.2 VDC Lithium rechargeable battery pack with a capacity of 7800mA. When fully charged has the capacity of transmitting around 5000 GPS position. The unit has an internal fast charger. The batteries are charged via an external of the shelf standard 6-24VDC regulated power supply wall powered (110-220 AC) that plugs into the unit via a waterproof connector. Charge time is around 4-5 hours.
- Externally powered- the Hybrid+ will run in continuous mode acting as a realtime tracker for as long as external power is available. The internal battery will recharge for as long as external power is available.

Electrical Specifications

- Current consumption from battery:
- standby mode: 40ma at 3V
- sleep mode: 45uA at 3V
- transmit mode: 1.8A pulse at 3V

Options

- Up to 6 external digital temperature sensors for refrigerated trailers
- J1939 or OBDII
- J1708
- 1 Analog input
- 2 Digital inputs

LED Indicators

- GPS: Off when service is disabled, solid green when operating normally, solid orange when GPS current reading is invalid, and solid red on GPS error.
- Modem: Solid green when modem is registered, off when no signal is present or unit is off
- Data: Solid red when data is waiting to be transmitted, off when no data is in the buffer
- Power: Solid green when operating normally, off when unit is off
- Charger - Orange when charging

Functional Specifications (partial)

- Digital inputs - optional up to two dry contact IO one input can make event on open loop detection that wakes up the unit and sends an alarm
- Up to 6 external digital temperature sensors (optional)
- Vibration sensor - for automatic security theft alarm and motion detection
- Over the Air (OTA) configuration via SMS
- Highly compressed OTA, UDP communication packaged with MidLink Middleware and "Plug & Play" API or DLL for quick integration into any third party software, recommended for dot.NET platforms.
- Or direct TCP/IP communication OTA, (no Middleware) packaged with "Plug & Play" API or DLL for quick integration into any third party software, recommended for Unix and/or Linux platforms
- OTA Diagnostic - via Wireless Links proprietary application and communication software.
- USB port for firmware download and configuration
- Analog Input -Optional 0-5V analog input ,sensor powered by an external power source controlled by the Piccolo ATX2S.
- USB port powers the unit during configuration and testing Firmware download and configuration via USB.
- Integrated internal analog temperature sensor sends unit temperature with every GPS data transmission
- High location accuracy achieved with integrated 66 channel MTK GPS technology
- Optional external GPS and /or cellular antenna
- Sends battery level with every GPS data
- Store and forward- the unit can store up to 10,000 events when out of cellular coverage and then send them automatically when back in cellular coverage

Easy Installation

- Magnets - For easy installation on metal surfaces
- Two sided 3M Industrial tape- for a strong, permanent attachment
- Mount the Piccolo Hybrid+ to the asset with screws



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