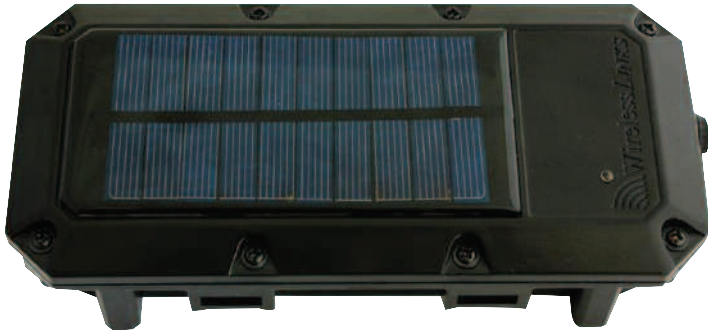


# Piccolo ATX - 2S

The Industry's most Innovative battery Operated or Solar Powered GPS unit for Asset Tracking

GSM/GPRS or EDGE, HSPA+, 3G modem, GPS and cellular antennas all integrated in one waterproof IP 67 enclosure



**Packaged in an IP67 waterproof enclosure the Piccolo ATX-2S is the ideal solution for:  
Container tracking, Trailer tracking and any Asset tracking.**

- The revolutionary Solar Powered Piccolo ATX 2S has a rechargeable battery capacity of sending up to 10,000 GPS positions on a single charge
- The large solar panel charges the integrated rechargeable lithium with power equivalent to the transmission of up to 20 GPS positions a day. (depending on weather, location and exposure to the sun)

## Main Features:

- **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)
- **Hybrid - Dual Mode** of operation for Trailer Tracking When the Piccolo ATX is wired to an external power source such as trailer connected to the cabin, the ATX-2S internal batteries will be charged and the ATX-2S will operate in real-time sending GPS say every minute. When the cabin disconnects from the trailer the external power is disconnected and the ATX will automatically switch to be powered by the internal battery and will switch to asset tracking mode described above.
- **GEO FENCE mode of operation** - the unit can change the frequency of transmitting GPS when entering a pre-configured GEO FENCE to be detected at first ATX-2S wake up.
- The ATX sends notifications to the server when and where the external power is disconnected or connected.
- With every GPS message, the ATX-2S 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 10,000 events when out of cellular coverage then sends them automatically when back in cellular coverage

## Easy Installation, Full Portability

- For portability - Install POP IN bracket on any trailer, container and/or asset
- Magnets - For easy installation on metal surfaces
- Two sided 3M Industrial tape- for a strong, permanent attachment
- Piccolo ATX 2-S screwed to the asset

***Integration into your application is as easy as "Plug & Play."***

Whether your platform is .NET, Unix or Linux the Piccolo Plus is a complete mobile communication solution packaged with APIs and DLLs for fast and simple integration into your back office fleet management application

***Our technology will make your business the most competitive in your market***

# Piccolo ATX -2S - *Product Specifications*

## 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: 7.3" x 2.8" x 1.6" (185mm x 73mm x 41mm) without solar panel and bracket
- Weight: 9oz (255gr) 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 - the standard is one 4.2 VDC Lithium rechargeable battery pack with a capacity of 7800mA. When fully charged has the capacity of transmitting around 4000 GPS position. Optionally a second battery pack can be added with same capacity for transmitting a total of around 8000 GPS positions. 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. Optionally the unit can be charged from a car battery via the cigarette plug. The charge time is around 4-5 for one battery pack.
- Solar Powered the unit configuration remains as described above with a rechargeable battery or two battery packs, the solar panel will charge the lithium batteries at 200Mamp in full sun. In a summer sunny day the solar panel will charge the batteries with power the equivalent to around 20 GPS transmissions.

## Electrical Specifications:

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

## 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

## Southern California Office:

Address: 5435 Cahuenga Blvd Suite D, North Hollywood, CA 91601  
Voice: 1-818-563-2839

## Northern California Office:

Address: 2360 East Bidwell Street, Suite 111, Folsom, CA. 95630  
Voice: 650-692-8100

## Options:

- External digital temperature sensor for refrigerated trailers
- J1939 or OBDII
- J1708
- 1 Analog input
- 2 Digital inputs

## Functional Specifications

- 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 ATX.
- 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.
- Sends Cell based Locations in addition to GPS



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*We Lead the Industry in Innovation and Customer Satisfaction*