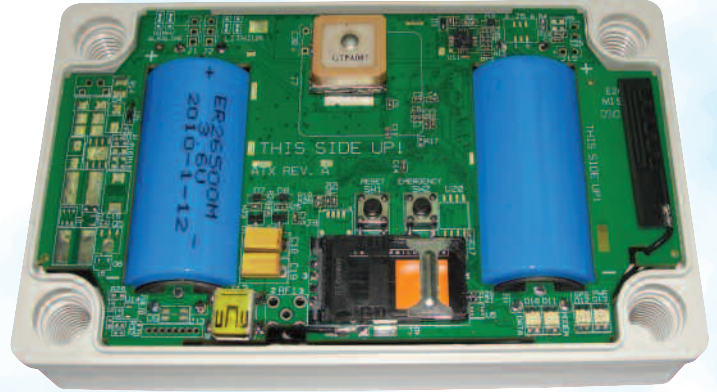
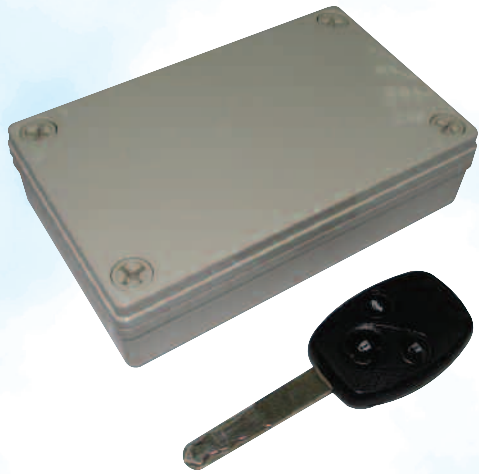


Piccolo ATX - Battery Operated

Asset Tracking Made Simple & Affordable by Innovation



So advanced, it can operate for up to 5 years on two standard off the shelf C size lithium batteries, simplifying service & reducing maintenance cost

- Small size 5.2" x 3.2" x 1.35" (132mm x 82mm x 34mm) designed to fit between the container ribs
- GSM/GPRS modem, batteries, GPS & cellular antennas vibration sensor all integrated in one IP 67 water proof flame retardant enclosure
- Extremely low power consumption achieved by innovative battery management to preserve battery life
- Theft protection-automatically wakes up and sends alarm on vibration and/or tilt detection
- USB port for firmware download and configuration
- Optional one I/O event that can wake up the unit and send an alarm
- USB port powers the unit during configuration
- Settings changed via SMS
- Sends cell based locations in addition to GPS coordinates
- Sends battery level with every GPS data transmission
- Integrated internal analog temperature sensor sends unit temperature with every GPS data transmission
- Over the Air (OTA) diagnostics
- High accuracy achieved with integrated 66 satellite channel GPS technology
- Highly compressed UDP or TCP/IP data communication
- Store and forward – the unit can store up to 10,000 events when out of cellular coverage then send them automatically when back in cellular coverage
- Asset tracking mode – The unit sends the GPS location every X 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 Y minutes
- Dual mode operation - When rechargeable batteries are used and the unit is tethered to external power the unit can be programmed to function as a regular vehicle tracking unit sending GPS every X minutes. When the external power is disconnected, the unit will automatically switch to "asset tracking mode"

Power source options:

- Two standard off the shelf C size lithium batteries 3.7 VDC each can transmit around 2500 GPS positions
- Two standard off the shelf Alkaline C size batteries 1.5VDC can transmit around 1200 GPS positions
- Two rechargeable C size off-the-shelf NIMH 1.2VDC batteries, tethered to external 6VDC–32VDC power. The rechargeable batteries can be charged via standard USB port and/or tethered to external power. When fully charged the unit can transmit around 1500 GPS positions

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



We Lead the Industry in
Innovation and Customer Satisfaction

Piccolo ATX - Product Specifications

So Innovative - it can operate for up to 5 years on two standard off the shelf C size lithium batteries, simplifying service & reducing maintenance cost

Technical Specifications

- Network availability – GSM/GPRS
- Frequency Bands - Quad-Band (European 900/1800, American 850/1900)
- Enclosure: Polycarbonate Lexan 123R(HB-UV) waterproof IP67 enclosure, rated UL94V-0
- GPS - 66 channels MediaTek MT3329
- Dimensions: 5.2" x 3.2" x 1.35" (132mm x 82mm x 34mm)
- Weight: 6oz (170gr) without the batteries

Environmental Specifications:

- Operating Temperature: -40° to 176° F (-40° 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:

- Two off the shelf C size lithium batteries 3.7 VDC each can transmit around 2500 GPS positions
- Two standard off the shelf Alkaline C size batteries 1.5VDC can transmit around 1200 GPS positions. (Not recommended in cold weather below -5°C)
- Recharges two C size off-the-shelf NMH 1.2VDC batteries, tethered to external 6VDC – 32VDC power
- The rechargeable batteries can be charged via standard USB port and/or tethered to external power. When fully charged can transmit around 1500 GPS positions

Electrical Specifications:

- Current consumption from battery:
 - standby mode: 40ma at 3V
 - sleep mode: 45µA at 3V
 - transmit mode: 1.8A pulse at 3V
- Current consumption when tethered to external 12VDC:
 - standby mode: 40ma at 12V
 - sleep mode: 50µA at 12V
 - charging: 300ma at 12V
- Protection - Internal resettable 1Amp fuse available with rechargeable battery option

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

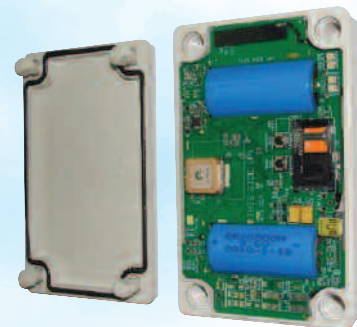
- CHARGER: When tethered to external power, off when power is disconnected, orange when charging, Blinking green when charging is completed, red when there is a problem charging

Functional Specifications (partial)

- Asset tracking mode - The unit sends GPS location every X hours (usually once a day) when the asset is stopped. When vibration is detected, the unit wakes up and automatically sends an alarm and switches to motion mode sending GPS every Y minutes.
- Dual mode operation - When rechargeable batteries are used and the unit is tethered to external power, the unit can be programmed to function as a regular vehicle tracking unit sending GPS every X minutes. When the external power is disconnected, the unit will automatically switch to "asset tracking mode."
- Digital inputs - One optional digital input that when enabled, will send an alarm when the unit wakes when input conditions are met
- Vibration sensor – Sensitivity adjustable for automatic security theft alarm and motion detection
- Installation – External on top of the asset, trailer top or container top between the ribs
- Internal analog temperature sensor, sends unit temperature with every GPS data transmission
- Firmware download and configuration via USB
- Over the Air 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 .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 - Communication packaged with diagnostic tools
- Store and forward – The unit can store up to 10,000 events when out of cellular coverage then send them automatically when back in cellular coverage
- Tow detection – The unit detects when the vehicle tilts or is moving
- Sends battery level with every GPS data transmission
- Settings programable via SMS
- Sends cell based locations in addition to GPS



1050 Wall Street West, Suite 202, Lyndhurst, NJ 07071-9910
Tel: (201) 531-5906 Fax: (201) 531-9795
E-mail: marketing@wlius.com Web site: www.wlius.com



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