

# PICCOLO AT

## OVERVIEW

Whether your assets are left at public construction sites or expensive equipment is leased out, the Piccolo AT, packaged in a ruggedized waterproof IP67 enclosure, provides security and peace of mind that assets are safe and where they should be.

**The Piccolo AT is available in two options:**

- Piccolo ATR- Rechargeable lithium battery with up to 5,000 GPS Pings on a single charge with a 7800mAh battery and around 2500 GPS Pings with a 4000mAh battery
- Piccolo ATMS- on top of the above, the solar panel is charging the battery at a rate equivalent of around 7 GPS pings a day at full sunlight.

## KEY FEATURES

- Ruggedized IP67 Waterproof Enclosure
- Integrated Solar Panel
- Powered by a large 4000mAh or 7800mAh rechargeable lithium battery
- Small size, installs in minutes.

**THE INDUSTRY'S MOST INNOVATIVE PORTABLE GPS BASED TRACKING DEVICE**



**PICCOLO ATR**  
Portable Rechargeable battery



**PICCOLO ATMS**  
Portable Solar Powered

**DIFFERENTIATE VIA INNOVATION**

# TECHNICAL SPECIFICATIONS

## CONNECTIVITY

<b>Network</b>	4G CATM1/NB1 with 2G Fallback. Supported bands Cat.M1 & NB1, LTE-FDD:B1/B2/B3/B4/B5/B8/B12/ B13/ B18/B19/B20/B26/B28 LTE-TDD: B39 (for Cat.M1 only) GSM850/GSM900/DCS1800/PCS1900
<b>Storage</b>	Store & Forward- Built-in flash storage for data logging when out of cellular connectivity (up to 5,000 events)
<b>Communication</b>	Highly compressed OTA, UDP communication packaged with MidLink Middleware or Direct TCP/IP communication (TCP/IP packaged with 'Plug & Play' API or DLL for quick integration into any 3rd party software.
<b>OTA Diagnostics</b>	Via Wireless Links proprietary apps and communication software
<b>Configuration</b>	USB port for FW download and local configuration. USB port powers unit during configuration. Remote OTA configuration and FOTA available when unit is externally powered. SMS commands for configuration, available also when unit is in AT mode.
<b>GPS</b>	MTK 66 channels

## ENCLOSURE

<b>Material</b>	PLUSTEK PB5001J8BK11 Black, 40% Glass Fiber & Glass beads Reinforced, Halogen and Red Phosphorus Free, Flame Retardant, UV Stabilized Polyamide 6
<b>IP Rating</b>	IP67 waterproof enclosure
<b>Dimensions</b>	4.9" x 3.3" x 1.6" LWD (125mm x 87mm x 41mm) • Weight: 3.7 oz.(105gr) without batteries
<b>Operating Temperature</b>	-22° to 176° F (-30° to 80° C)
<b>Storage Temperature</b>	-40° to 221°F (-40° to 105°)
<b>Shock / Vibration / Mechanical</b>	Meets or exceeds EIA standard RS-316B 3G (operating), 20G (non operating) XYZ 3 directions. Meets SAE J1455

## POWER

<b>Power Source</b>	Powered by either 2,000mAh, 4000mAh or 7800mAh rechargeable lithium battery.
<b>Transmit Mode</b>	1.8A pulse at 3VD
<b>Standby Mode</b>	40ma at 3V
<b>Sleep Mode</b>	45uA at 3V
<b>Battery Life</b>	Up to 5,000 GPS positions when powered by the 7800mAh battery pack.
<b>Solar Panel</b>	Integrated
<b>Charging</b>	Integrated fast charger module. Battery is charged via external off the shelf standard 12v wall charger. Charge time around 4-5 hours.

## EASY INSTALLATION

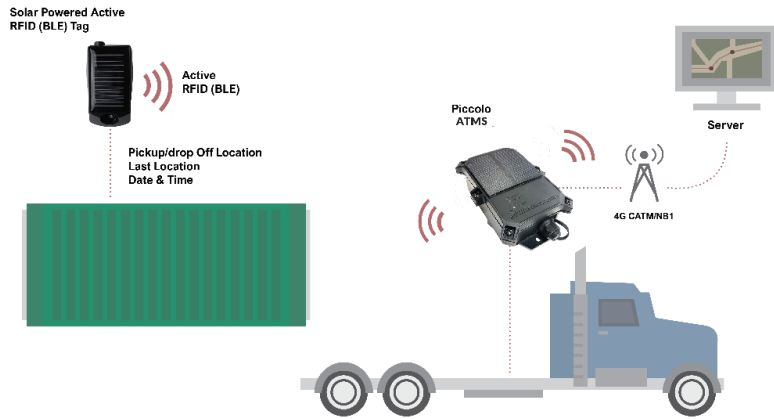
<b>Magnets</b>	Optional magnets for easy installation on metal surfaces
<b>Two sided 3M Industrial Tape</b>	For a strong, permanent attachment. (tape to be ordered separately)
<b>Screws/Bolts</b>	Mount the unit to any asset with screws.

## BASE FEATURES

<b>3D Accelerometer</b>	For tilt detection, automatic security theft alarm and motion detection.
<b>AT Mode of operation</b>	preprogramed 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)
<b>Dual Mode Hybrid Operation (when externally powered)</b>	When externally powered, unit runs in real time. When external power is disconnected, unit switches to AT mode.
<b>Internal Temperature Sensor</b>	Integrated internal analog temperature sensor send unit temperature with every GPS data transmission
<b>Tow Detection</b>	the unit detects when the vehicle is moving. Extremely low power consumption achieved by innovative battery management to preserve battery life
<b>Geofence mode of operation</b>	the unit can change the frequency of transmitting GPS when entering a pre-configured geofence to be detected at first ATMS wake up.
<b>Battery Level reporting</b>	Sends battery level with every GPS data.

# IOT APPLICATIONS

## CHASSIS TRACKING



## ASSET TRACKING

