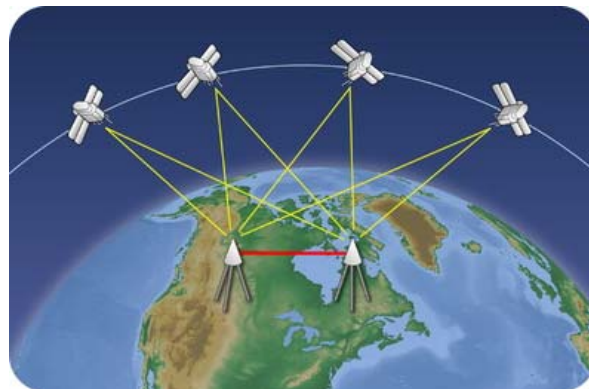




AirTegrity™ GPS Ai (Air Integration)



Key Features:

- SiRFStar III™ Technologies™
- Fast acquisition time and high sensitivity GPS receiver
- 20 channel GPS receiver
- Multi-path mitigation
- Uses NAVSTAR GPS L1 signal
- SBAS (WAAS, ENGOS and MSAS) support
- Available software accelerator for improved sensitivity: Satellite acquisition and tracking
- Selectable output data: Latitude, Longitude, Altitude, Speed, Heading and Time
- Supports E911 mandate

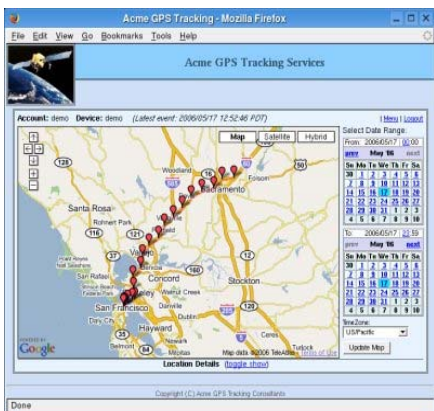
AirTegrity's™ GPS Ai (Air Integration) module is based on SiRFstar III™ technology, utilizing a 20 Channel Global Position System (GPS) receiver solution that is built into a select number of AirTegrity radio models.

The AirTegrity™ GPS Ai features fast acquisition times, or Time to First Fix (TTFF), high receiver sensitivity optimized by the embedded GPS software, GSW3, which allows the system to work in very weak signal environments to improve navigation availability and network timing accuracy.

Time Stamp—AirTegrity's GPS Ai provides a precise time reference for fixed or mobile units to transfer reference clock synchronization from one point to another. This feature is essential for telecommunication networks, providing real-time, accurate date & time stamps to realign clock synchronization. One NTP supported GPS clock source can provide accurate global reference time & date, synchronizing the clocks of computers on the whole network. This is also beneficial for surveillance networks, as it is important for security validation and reporting in judicial proceedings.

Mobile—The mobile uses of GPS tracking are imperative for dispatching and managing remote field resources, weather it be Public Safety, Home Land Security or a fleet of vassals, trucks or box cars. Real-time tracking of speed, location and traveled routes will streamline the effectiveness of the resources, saving time and money.

Alignment and Network Optimization—In the wireless world, site surveys, extensive deployments and ongoing network optimization are a constant pull on company resources. AirTegrity's GPS Ai will help elevate multiple remote site visits and reduce alignment and total network deployment times. Adding new infrastructure will be easier and more reliable than ever.



Web Based Tracking Software Features Available via Open GTS

- Web-based authentication: Users can log-in and view their own Account and Device information.
- Customizable web-page decorations: The top, bottom, and sides of each web-page can easily be customized to fit a specific motif.
- Customizable menu options: Customized menu options can be made available for specific requirements.
- Customizable mapping service: *OpenGTS* comes installed with a working Google Maps interface, however, other mapping service providers can easily be integrated with minimal effort.





AirTegrity™ GPS Ai
(Air Integration)

GPS Specifications

Acquisition Time (TTTF)	Hot Start TTTF @ -136 dBm: 0.5 sec Hot Start TTTF @ -141 dBm: 0.8 sec Hot Start TTTF @ -146 dBm: 1.9 sec Cold Start TTTF @ -136 dBm: 32.6 sec Reacquisition @ -136 dBm: 100 msec	Power Consumption	RX 47 mA Sleep 74 μ A
Receiver Sensitivity	Minimum Acquisition Signal : -142 dBm Minimum Tracking Signal: -157 dBm	Temperature Range	Operating Temperature: -40°C to +55°C Humidity: 100%, Non-condensing
Timing Accuracy	1PPS 1 μ s		
Position Accuracy (3-D NAV)		GPS Data Input	
Stationary	Vertical (Avg) : -0.1m Horizontal (Avg): 1.5m	Frequency	1.57542 GHz
Velocity	Vertical: 0.379 m/s Horizontal: 0.728 m/s	Antenna Port	50 Ω TNC Type for External Antenna Only
Dynamic	Velocity: 1000 kts max. Altitude: 60,000 ft. max.	20 channels	L1 code

GPS Series Ordering Options—Currently Available on the following AT products

- AT3100 Dual Radio Gateway Family—All Models
 - AT3205 Dual Bridge/Router
 - AT3300 Triple Radio Gateway Family—All Models
 - AT3600 Access Point Family—All Models
- Contact an AirTegrity representative for further details on optional configurations.

GPS Compliances

EMC/Immunity

- United States: FCC Part 15
- Canada: ICES 033
- European Union: EN 55022, IEC 1004/CISPR 22
- Japan: VCCI - V series
- Taiwan: CNS 13438
- People's Republic of China: GB9254

Product Safety

- United States/Canada: UL/CSA 60950, UL 61010, UL 60065, CSA 601, CSA 61010,C22.2 No. 225
- European Union: EN 60950, EN61010, IEC 60065, IEC 60601
- Japan: ARIB STD-T66
- Restriction of Hazardous Substances Directive (RoHS) 2002/95/EC
- People's Republic of China: CNCA-08C-0312001

About AirTegrity Wireless, Inc.

AirTegrity™ Wireless is a market leader providing a secure wireless broadband platform that encompasses all networking and security requirements for the delivery of voice and data services in a single cohesive product. AirTegrity award winning wireless modules operate in both licensed and unlicensed frequencies. AirTegrity™ Smart Networks dramatically reduce the cost of network deployment, ownership and management by integrating Multi-Channel Radio and Antenna technology with powerful routing, switching and security functions into each AirTegrity™ system.

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AirTegrity reserves the right to modify specifications without notice at any time. AirTegrity is a registered trademark of AirTegrity Wireless, Inc.
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