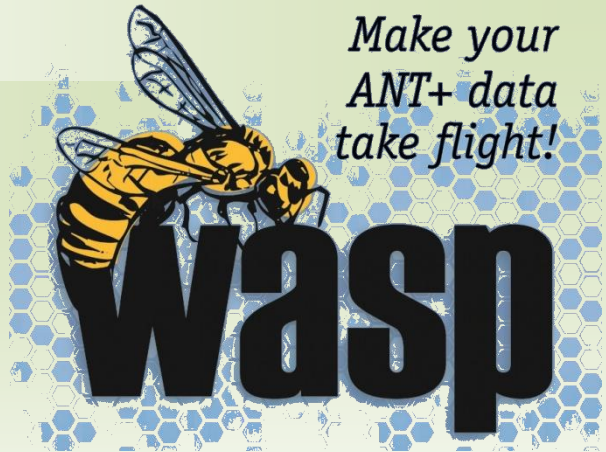


North Pole Engineering, Inc.



WASP Embedded 802.11 to ANT+ Wireless Solution

Product Overview

WASP is a standalone unit providing a bridge for ANT+ devices to communicate wirelessly through Wi-Fi networks to other devices or over the Internet. Integrating an NPE Wi-Fi-IT! module, 8-channel ANT+ receiver, power management circuitry and rechargeable Li-Ion battery, **WASP** provides a data gateway for monitoring, recording and analyzing ANT+ data remotely. The water resistant case features an integrated loop for securing the unit to the user while in use. **WASP** receives data from connected ANT+ devices and translates the data into Wi-Fi packets, making it available to any Wi-Fi connected device. The **WASP** Application Programmers Interface is an open API that is used by developers to integrate **WASP** into ANT+ applications. **WASP** can operate for up to 6 hours on a single charge, or continuously plugged into a computer USB port or wall USB power supply.

WASP connects ANT+ devices to a wireless network for monitoring and data collection purposes. For example ANT+ home scales, pulse-oximeter monitors, and blood glucose monitors are all able to use this bridge module to communicate their data to central monitoring stations via the Wi-Fi network.

WASP is also usable as a bridge between multiple ANT+ nodes in distributed ANT+ network topologies. Since ANT+ is a personal area network, it has a typical range of approximately two meters. If the ANT+ network is used as a mesh or hub and spoke topology, **WASP** can join networks together that would normally not be able to communicate with each other because of range limitations.

Features

- + FCC/IC certified WiFi-IT! module, full 802.11/b 11 Mbps data transfer rate
- + FCC/IC certified 8 channel ANT+ receiver
- + ANT+/ANT-FS compatible
- + Wi-Fi point-to-point and multicast streaming
- + WiFi ad-hoc/infrastructure
- + OEM Access to packet protocol and API Library
- + On Board Memory
- + Rechargeable battery
- + USB to PC configuration
- + Battery level monitoring & reporting with 6-hour life
- + Touch sensitive power switch
- + Dual LED power/function indicator
- + Water & shock resistant case & Secure Loop
- + Size (6.8x4.2x1.8cm)
- + Light weight ~1.5 Oz
- + Industrial temp. range
- + 6 month limited warranty

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Ordering Information

WASP is available at NPE online

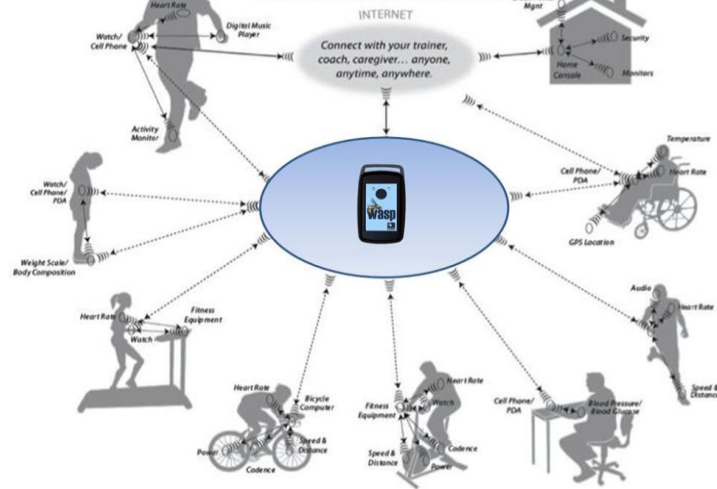
<http://www.npe-inc.com/products/products-wasp.html>

WASP Specifications

Characteristic	Description
Wi-Fi Radio Protocol	IEEE 802.11 b/g/n compatible 11 Mbps maximum data rate
Wi-Fi RF Output (typical)	9 dBm internal power amplifier
ANT+ Radio Frequency Band	2.4 Ghz ISM (2.40000-2.4835)
ANT+ Radio data rate	1 Mbps
ANT+ Radio Modulation	GFSK
Supported Network Topologies	Peer-to-peer Star Tree Practical mesh
Battery Life	6 hours in continuous scan mode
USB Connector Type	Micro USB

ANT+ Device Ecosystem
- Potential with Wasp -

Wasp reduces the need for added computer infrastructure and improves the user-friendly capture of information



Target Applications

Home Health

Wellness

Sports

