

## North Pole Engineering, Inc.



# WASP-N Embedded 802.11 b/g/n ANT+Wireless Solution

## Product Overview

**WASP-N** is a standalone bridge that allows Bluetooth® Smart (formally Bluetooth Low Energy or BLE) and ANT+ devices to communicate wirelessly through Wi-Fi networks to other devices or over the Internet. For example BLE/ANT+ heart rate monitors, 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 WiFi network.

Integrating a WiFi module, 8-channel BLE/ANT+ transceiver, power management circuitry and rechargeable Li-Ion battery, **WASP-N** provides a data gateway for real-time monitoring, recording and analyzing BLE/ANT+ data remotely. **WASP-N** operates in WiFi infrastructure networks or as a limited Access Point (AP), where it creates its own network.

NPE supplies an Application Programmers Interface (API) for the **WASP-N**, **WASP-PoE** and **WASP-B** bridges that provides Application programmers one development interface for these devices. APIs are available for .NET, Apple iOS and Apple MacOS operating systems.

**WASP-N** can operate for up to 6 hours on a single charge or continuously when plugged into a computer USB port or wall USB power supply.

**WASP-N** is ideal for using in different situations where mobility and WiFi access or not is important. **WASP-N** can be situated in a designated monitoring area to provide complete coverage of BLE and various ANT protocol sensor data coming from groups of people or groups of devices. Portions of data initially captured by one node will continue to be captured through other nodes as the individual moves throughout the monitoring area thus creating a smart, real-time monitoring solution.

## Features

- + IEEE 802.11 b/g/n connectivity with PHY rates up to 72 Mbps
- + Concurrent communication w/100+ sensors
- + Bi-Directional sensor communication & control
- + FCC and ANT+ Certified
- + Bluetooth Smart/ANT/ANT+/ANT-FS compatible
- + Simultaneous traffic management from various combinations of Bluetooth Smart and ANT protocols
- + WASP OEM ANT Network Key Protection
- + Wi-Fi point-to-point and multicast streaming
- + WiFi ad-hoc/infrastructure
- + Expandable to cover WAN
- + On Board Memory
- + Rechargeable battery
- + USB to PC configuration
- + Up to 6-hour battery life
- + Battery level monitoring
- + Touch sensitive switch
- + Dual LED power/function indicator
- + Size (6.8x4.2x1.8cm), 1.5 Oz
- + 12 month limited warranty

2

# WASP-N Specifications

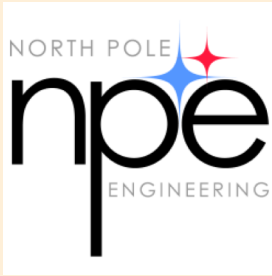
## North Pole Engineering, Inc.

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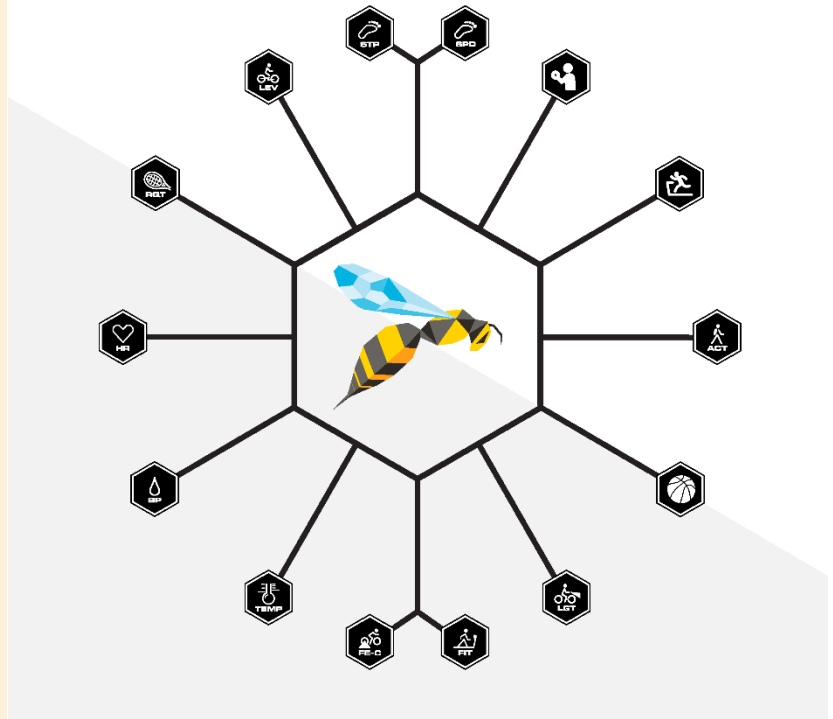
### Ordering Information

WASP-N is available through the following online store link:  
<http://store.npe-inc.com/categories/WASP/>

Or, contact Jim Meyer at NPE:  
[jimm@npe-inc.com](mailto:jimm@npe-inc.com)  
 612-305-0440, ext 224

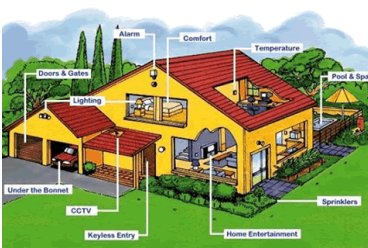


Characteristic	Description
Wi-Fi Radio Protocol	IEEE 802.11 b/g/n compatible 72 Mbps maximum data rate
Wi-Fi RF Output (typical)	15 dBm internal power amplifier
ANT+ Radio Frequency Band	2.4 Ghz ISM (2.40000-2.4835)
ANT+ Radio data rate	1 Mbps
ANT+ Radio Modulation	GFSK
Supported Network Topologies	Peer-to-peer Star Tree Practical mesh
Battery Life	6 hours in continuous scan mode
USB Connector Type	Micro USB



## Target Applications

Connected Devices



Home Health



Corporate Wellness



Group Sports/Fitness

