

AMW006-A02 (Mantis)

Wi-Fi shield provides a quick and easy way to develop with WiConnect on the AMW006 Wi-Fi networking module with your Arduino compatible platform



Overview

The AMW006-A02 'Mantis' Wi-Fi shield is designed to connect directly to your Arduino-compatible microcontroller development platform. Whether you prefer an Arduino or an STM32 Nucleo platform, the footprint follows the industry pseudo-standard footprint and the easy to use instructions illustrate how to make minor hardware changes that allow use with similar platforms

The board is designed to work with ACKme's WiConnect API and/or via ARM's mbed environment (mbed).

Mantis supports all of the features of Numbat, including antenna diversity, goHackme support and many others. The core of the Numbat module runs at 84MHz and provides up to 1MB flash for data storage ensuring it is flexible enough to run virtually all command/control or sensor applications. The WiConnect application running on the Numbat module provides easy-to-use ASCII commands to read the state of the buttons and turn the LEDs on and off. For a more compelling demo, connect the board to your Wi-Fi access point, signup at <https://goHACK.me> and control the board from across the room, or from the other side of the planet!

goHACK.me is designed to address one of the biggest issues facing product designers, entrepreneurs and hobbyists today - 'How to easily demonstrate products working with cloud connectivity without investing huge amounts of time and resource needed to support the required infrastructure'.

goHACK.me, by ACKme Networks is a free-to-use cloud designed to offer engineers a cloud-based sense and control solution to easily enable demonstration of concepts and ideas before investing in a full commercial solution.

FEATURES

- Plugs directly into +3.3V tolerant Arduino-compatible platforms
- USB-UART interface for a direct serial connection to the AMW006 Wi-Fi module
- Dual wire whip antennas to support antenna diversity
- Separate LEDs indicate data on UART transmit/receive
- Sensor interface including two buttons and two LEDs
- System indicator LEDs show network connection state
- Manual reset switch (for the Arduino platform)
- Breakout headers and ground hooks for easy prototyping
- Powered by +3.3V from the Arduino platform

Specs

USB UART	Up to 5 Mbit/s with hardware flow control (optional)
Sensor interface	2 x push buttons, 2 x LEDs
Breakout header	2 x 2x10-pin header (connects to every pin on the AMW004 module)
Power supply	+5V from USB (500mA max.)
Operating Temperature	0 – 70°C

