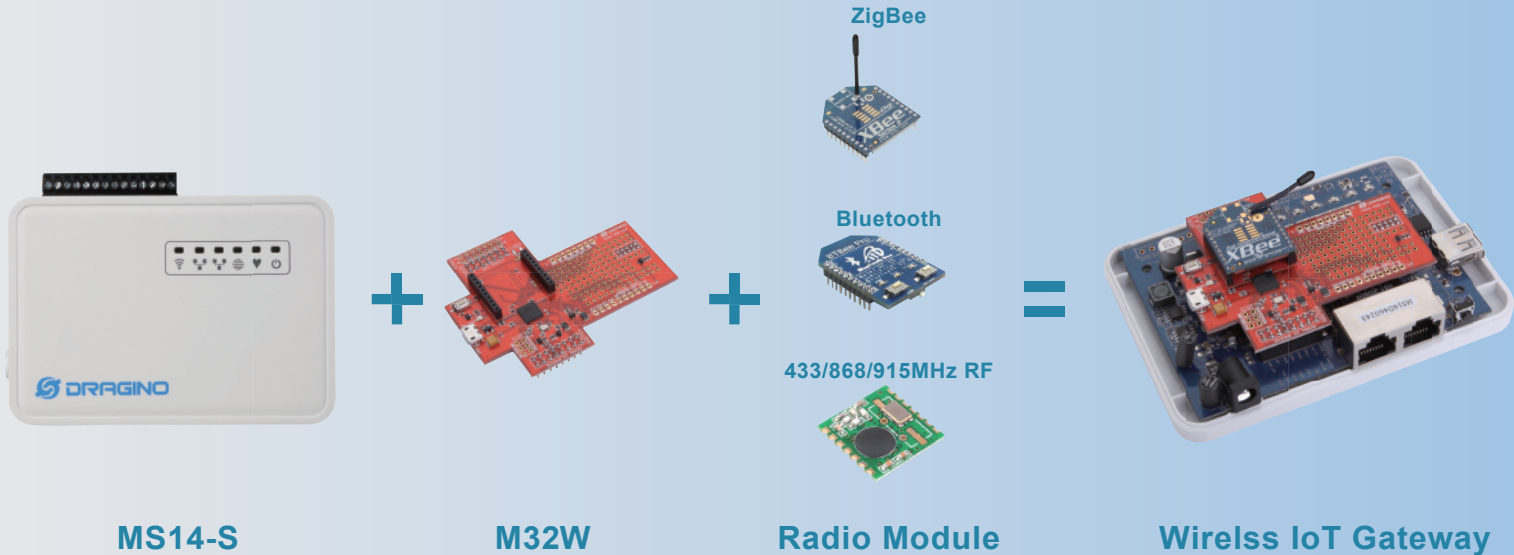


# Arduino Wireless IoT Module

**M32W**


## OVERVIEW:

M32W wireless Internet of Things module is designed for the easy of programming and installation for IoT projects where wireless protocol (zigbee, bluetooth, 433Mhz etc) is required. It is a plug-in module for MS14 and powered by an ATMEL ATmega32u4 micro-controller.

M32W has a standard XBEE Socket and RFM12B footprint to implement different wireless protocol modules. It also has a breadboard area for easy prototyping.

M32W is Arduino Yun compatible. It can be programmed and debug via WiFi by Arduino IDE(ver 1.5.4 or later).

With the combination of MS14, M32W and Arduino Yun software, user can prototype or install Internet of Things projects in an easy / rapidly way.

## Features:

- Bridge various wireless protocols such as zigbee, bluetooth, NFC into WiFi IP network
- Log sensor data and upload to remote server
- Control switch/relay from Internet
- Easy programming use Arduino IDE
- Compatible with Arduino Yun software
- Program/update/ debug via WiFi network
- ESD and Overvoltage Protection
- USB connector for programming / debugging
- Open hardware design

## Specification:

- Microcontroller : ATmega32U4
- Operating Voltage: 3.3V
- I/O voltage: 3.3V
- SRAM: 2.5KB
- Flash Memory: 32KB
- EEPROM: 1KB
- Clock speed: 16MHz
- Digital I/O pins x 15
- Analog input channels x 6
- PWM channels x 4
- XBEE socket x 1