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BlackWidow 1.0

BlackWidow 1.0: Arduino-compatible board with on-board 802.11b Wi-Fi, 14 digital I/O pins, and WEP/WPA/WPA2 wireless security.

SKU	UPDATED	PRICE
ARD125A2P	2024-08-09 02:14:05	$75.00(Excl. VAT)



Overview



The BlackWidow 1.0 is an Arduino Duemilanove compatible board with integrated 802.11b Wi-Fi, eliminating the need for additional shields. It features an Atmel Mega 328P microcontroller, 14 digital I/O pins (5 required for Wi-Fi), 6 analog inputs, and supports WEP, WPA, and WPA2 security in both infrastructure and ad-hoc modes.

Key Features

The BlackWidow is an Arduino Duemilanove compatible clone that has 802.11b wireless connectivity baked directly onto the board. The components have been switched out for surface mount equivalents to free up space for the wireless module. It is fully compatible with the Processing/Wiring IDE. The BlackWidow will give your Arduino projects added wireless connectivity without the need for additional bulky shields!

Features:

- size compatible with existing Arduino Duemilanove and Diecimila boards
- up to 14 digital I/O pins[1]
- 6 analog input pins
- Atmel Mega 328P microprocessor
  - 32KB flash RAM (2KB used for bootloader)
  - 2KB SRAM
  - 1KB EEPROM
- lower profile USB 5-pin mini-B connector
- auto-switchable power between USB and external DC power
- 2-pin JST connector allows for more varied external power options (JST to DC barrel jack, Litihium-ion battery pack, etc.)

- 802.11b 1 and 2 mbps wireless connectivity
- on-board PCB antenna
- switchable interrupt between INT0 and digital pin 8
- supports infrastructure mode (BSS) and adhoc (IBSS) network modes
- support for WEP, WPA, and WPA2 security
- LED attached to digital pin 9 used to indicate a successful wireless connection

Documents

Please visit our **wiki page** for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our**forum**.

[1]: For WiFi usage, a minimum of 5 digital pins are required: 4 for SPI and 1 for interrupt. The interrupt is switchable between digital pin 8 and digital pin 2. The SPI bus can be shared with other SPI devices, but the CS pin cannot be modified from pin 10. Your other SPI device must have a switchable SPI CS pin, or a hardware modification needs to be performed.

Resource Links

- **https://www.seeedstudio.com/BlackWidow-1-0-p-613.html**

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