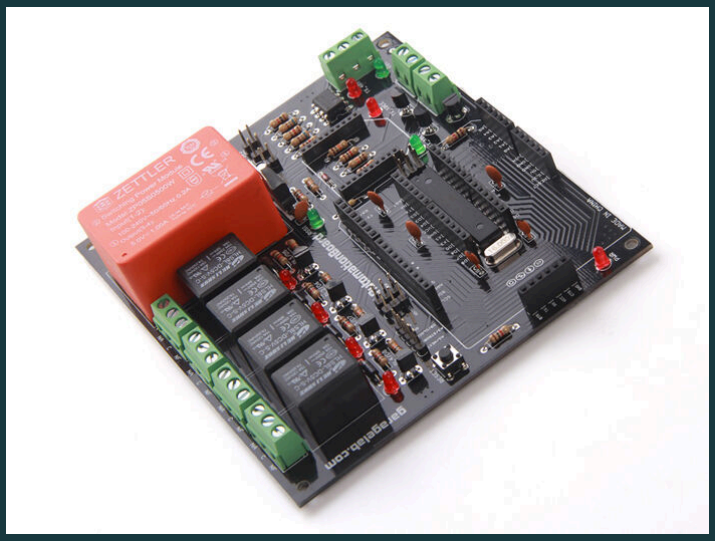
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Automation Board

Automation board with relays, sensor inputs, RS-485, XBee wireless, and Ethernet connectivity.

SKU	UPDATED	PRICE
102990218	2024-08-09 01:54:45	$49.00(Excl. VAT)



Overview



The Automation Board features an onboard 100-240VAC power supply and 4 relays for triggering alarms, locks, fans, and lights. It supports digital and analog sensors, RS-485, wireless XBee communication, and Ethernet via shields for industrial and home automation.

Key Features

- **Onboard Power Supply**

  Thanks to a power source soldered onto the board itself, it is supplied directly from the electrical grid with voltages between 100 to 240VAC and 50 or 60Hz making it adaptable to any electrical grid around the world.

- **Relay Triggering**

  The Automation Board has 4 relays to trigger alarms, electronic locks, fans, lamps and any other compatible charge.

- **Sensoring**

  The pins that are ready to connect your sensors, can be digital or analog, including 5v and GND, making the connections easy and organized. You will be able to connect several kinds of sensors such as temperature, humidity, or like this example, motion .

  You can connect an infrared receiver and use it to create a communication with any remote control like the one you use for your TV.

- **Internet Connection**

  The Automation Board, like the Arduino, allows you to use shields. You can also use minishields for Garagino like this Mini Ethernet Shield.

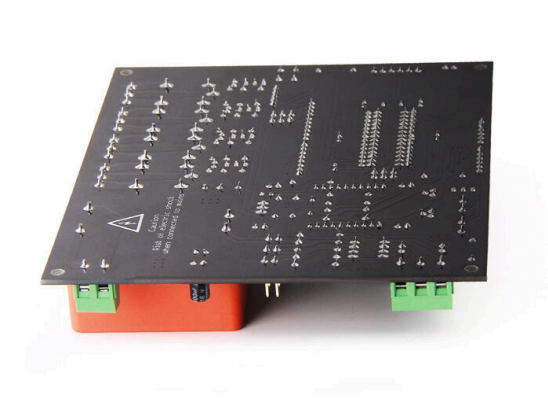
- **RS-485 Communication**

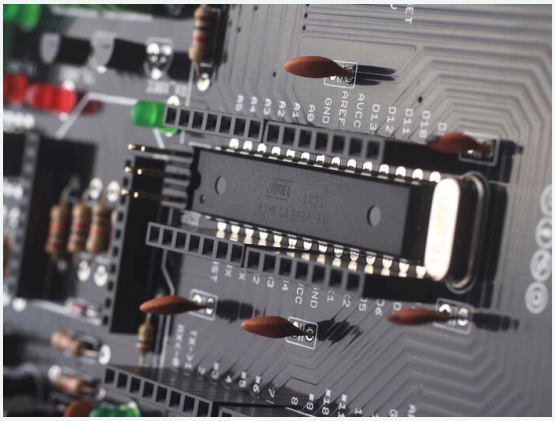
  Also it's possible to make an RS-485 connection through the Automation Board, allowing applications in industrial automation systems or in some places that has electromagnetic interference. You will even be able to use specific programs to control professional automation systems.

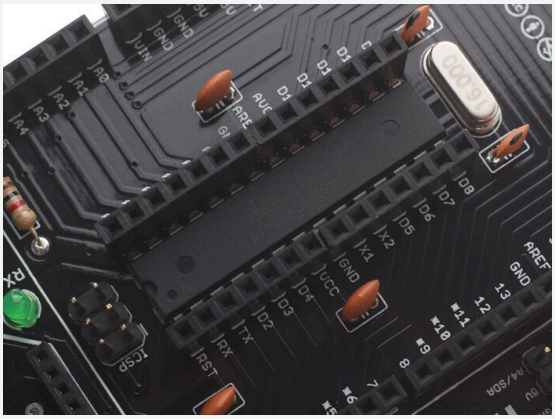
- **Wireless Communication**

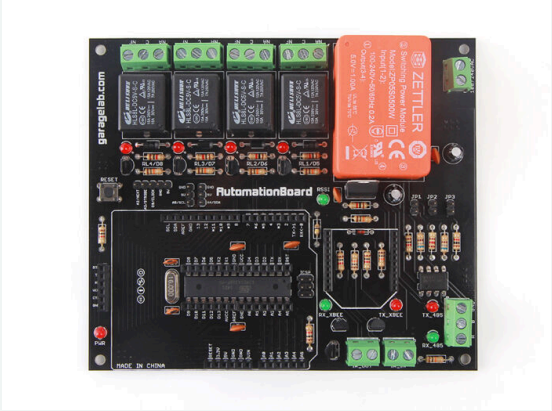
  Through the dedicated headers for XBee modules you will be able to connect as many Automation Boards as you wish to a network, or even a wireless connection with a PC through a simple Dongle USB for XBee.

Product Gallery









Part List

- Microcontroller: Atmel ATmega328P-PU (DIP)
- Bootloader: Optiboot (same as Arduino UNO)
- Relays: 100V/10A - 250V/7A
- Power Supply: 100 - 240Vac
- Digital Circuit Operating Voltage: 5V
- Internal voltage regulator and logic converter for XBee modules
- Digital I/O Pins: 14 (D0~D8 Reserved / D9~D13 Free)
- Analog Input Pins: 6 (A0 and A1 Reserved /A2~A5 Free)
- Dimensions: 130 x 112 x 26mm - 5,1 x 4,4 x 1'' (LengthxWidthxHeight)

Compliance & Logistics

HSCODE	8538900000

Resource Links

- https://www.seeedstudio.com/Automation-Board-p-2596.html

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