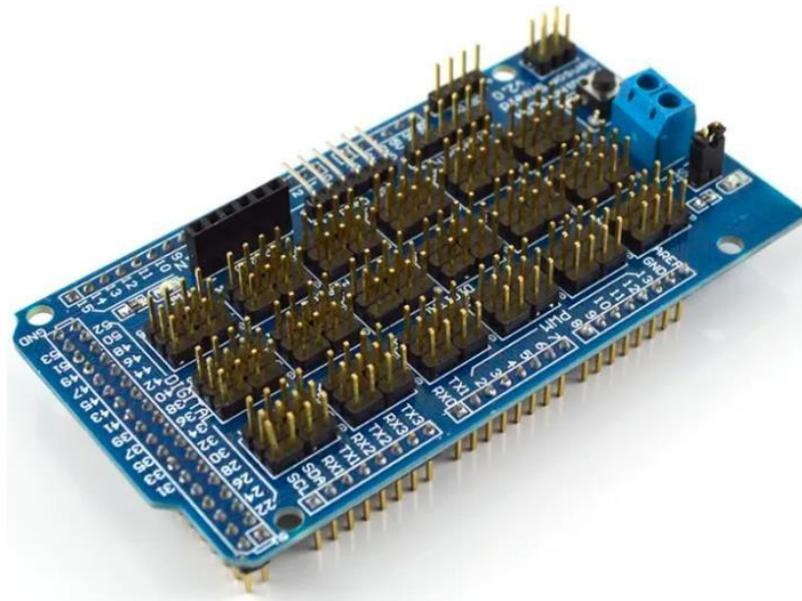


## Sensor Shield For Arduino Mega



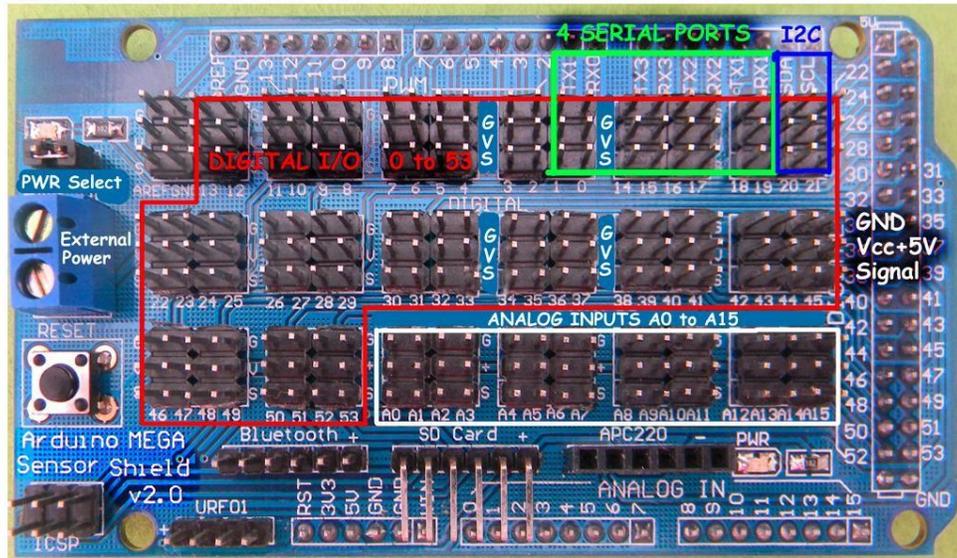
The Mega sensor shield v2.0 allows you to hook up the sensors directly to Arduino Mega 1280, Arduino Mega 2560 or Arduino Mega ADK without the use of the breadboard.

It also expand the Mega with Bluetooth module communication interface ,SD card module communication interface, APC220 radio-frequency module communication interface, RB URF v1.1 ultrasonic sensor interface and ICSP interface. easy to use for extension.

### FEATURES:

- The open-source IDE can be downloaded for free (currently for Mac OS X, Windows and Linux)
- Sensor Shield allows you to connect to various modules like sensors, servos, relays, buttons, potentiometers
- Pinout all of the Arduino digital and analog interface
- Support I2C interface
- Support 32 Servo Motor Drive Shield interface
- Support Bluetooth module communication interface
- Support SD card module communication interface
- Support APC220 wireless RF modules communication interface
- Support LCD Serial and Parallel interface
- Support kind of interfaces and can be fully compatible with Arduino Mega boards
- Size: 10cm x 5.5cm

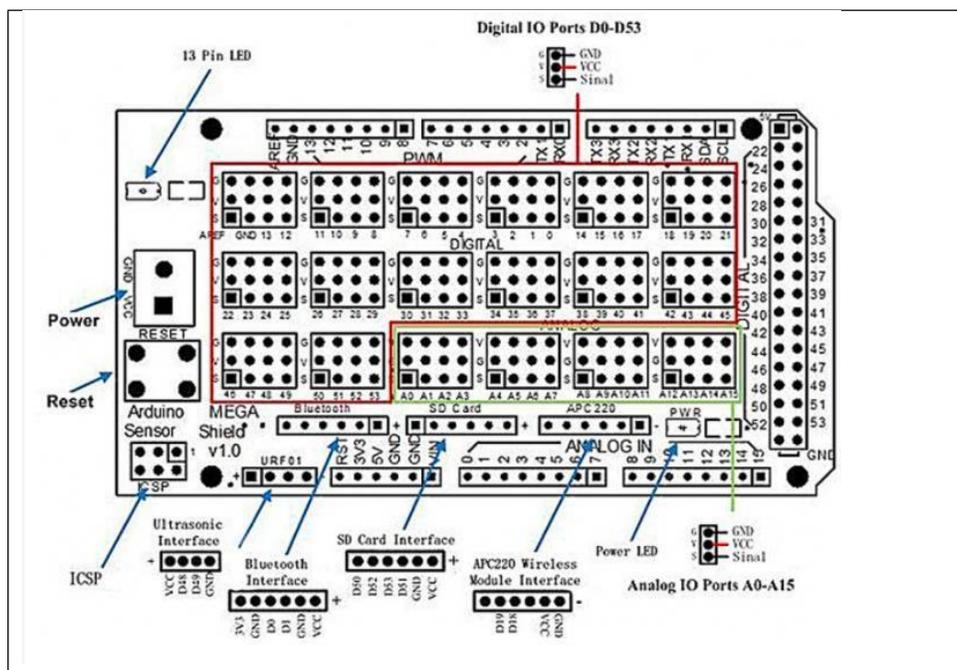




Dedicated Connectors (pins left to right, top to bottom, per above picture)

- ICSP: RST, D52/SCK, D50/MISO, GND, D51/MOSI, 5V
- Bluetooth: 3V3, GND, D0/RX0, D1/TX0, GND, 5V
- SD Card: D50/MISO, D52/SCK, D53/SS, D51/MOSI, 5V, GND
- APC220 (Wireless): --, D19/RX1, D18/TX1, --, 5V, GND
- URF01 (ultrasonic): 5V, D48, D49, GND

### PIN DIAGRAM:



- Each Port has 3 pins which are connected to (Ground), (Vcc + 5 V) and (Signal). Cables normally are color coded so it know the right way to plug them in:

Pins	Color
Ground	Black
Voltage	Red
Signal	White/Yellow

- **DIGITAL I/O PINS 0 to 13:**

These are available in the rows outlined in red above. They connect with cables to Electronic Bricks and other INPUT DEVICES and OUTPUT DEVICES.

- **ANALOG INPUT PINS A0 to A5:**

These are available in the row outlined in white above, AND on the black "Latched" connectors labeled "Analog 0" to "Analog 5". They also connect with cables to Electronic Bricks and other input devices.

- **COMMUNICATIONS PORT:**



This connector can go to external Bricks or other devices that have more complex Communications Protocols to work with Arduino. Examples are GPS receivers, Ethernet interfaces, and other complex devices. These are 4-pin connectors.

Either SERIAL COMMUNICATIONS (COM) or "I squared C" (often written as I2C or IIC) are supported on V4. The two select jumper blocks shown above are moved to select one or the other. On V5 there are separate connectors for SERIAL and I2C Communications.