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Used to receive (RX) and transmit (TX) TTL serial data. The input voltage to the board when it's using an external power source (as opposed to 5 volts from the USB connection or other regulated power source). The board can be supplied with power either from the DC power jack (7 - 12V), the USB connector (5V), or the VIN pin of the board (7-12V). When this line is asserted (taken low), the reset line drops long enough to reset the chip. The board can operate on an external supply of 6 to 20 volts. A SoftwareSerial library allows for serial communication on any of the Mega 2560's digital pins. In future, shields will be compatible both with the board that use the AVR, which operate with 5V and with the board that uses ATSAM3X8E, that operate with 3.3V. These pins can be configured to trigger an interrupt on a low level, a rising or falling edge, or a change in level. Reset. See the mapping between Arduino pins and Atmega2560 ports: PIN MAPPING ATmega2560 Each of the 54 digital pins on the Mega can be used as an input or output, using pinMode(), digitalWrite(), and digitalRead() functions. Maximum current draw is 50 mA. Ground pins. The Arduino Software (IDE) uses this capability to allow you to upload code by simply pressing the upload button in the Arduino environment. Physical Characteristics and Shield Compatibility The maximum length and width of the Mega 2560 PCB are 4 and 2.1 inches respectively, with the USB connector and power jack extending beyond the former dimension. Stronger RESET circuit. The power pins are as follows: Vin. The recommended range is 7 to 12 volts. External Interrupts: 2 (interrupt 0), 3 (interrupt 1), 18 (interrupt 5), 19 (interrupt 4), 20 (interrupt 3), and 21 (interrupt 2). Note that these pins are not in the same location as the TWI pins on the old Duemilanove or Diecimila Arduino boards. For the following half-second or so, the bootloader is running on the ATMega2560. External (non-USB) power can come either from an AC-to-DC adapter (wall-wart) or battery. For details, see the reference and tutorials. The Mega 2560 board can be programmed with the Arduino Software (IDE). In addition, some pins have specialized functions: Serial: 0 (RX) and 1 (TX); Serial 1: 19 (RX) and 18 (TX); Serial 2: 17 (RX) and 16 (TX); Serial 3: 15 (RX) and 14 (TX). The Arduino Software (IDE) includes a serial monitor which allows simple textual data to be sent to and from the board. If supplied with less than 7V, however, the 5V pin may supply less than five volts and the board may become unstable. There are a couple of other pins on the board: AREF. Or you can use the ISP header with an external programmer (overwriting the DFU bootloader). The Mega 2560 is designed to be compatible with most shields designed for the Uno and the older Diecimila or Duemilanove Arduino boards. Leads from a battery can be inserted in the GND and Vin pin headers of the POWER connector. They operate at 5 volts. The ATmega16U2/8U2 is loaded with a DFU bootloader, which can be activated by: On Rev1 boards: connecting the solder jumper on the back of the board (near the map of Italy) and then resetting the 8U2. This pin on the board provides the voltage reference with which the microcontroller operates. Provide 8-bit PWM output with the analogWrite() function. This means that the bootloader can have a shorter timeout, as the lowering of DTR can be well-coordinated with the start of the upload. See this user-contributed tutorial for more information. Atmega 16U2 replace the 8U2. The adapter can be connected by plugging a 2.1mm center-positive plug into the board's power jack. A maximum of 40mA is the value that must not be exceeded to avoid permanent damage to the microcontroller. For SPI communication, use the SPI library. Support TWI communication using the Wire library. The ATmega2560 provides four hardware UARTs for TTL (5V) serial communication. Communication The Mega 2560 board has a number of facilities for communicating with a computer, another board, or other microcontrollers. Memory The ATmega2560 has 256 KB of flash memory for storing code (of which 8 KB is used for the bootloader), 8 KB of SRAM and 4 KB of EEPROM (which can be read and written with the EEPROM library). There is a built-in LED connected to digital pin 13. 5V. LED: 13. The second one is a not connected pin, that is reserved for future purposes. TWI: 20 (SDA) and 21 (SCL). We don't advise it. The power source is selected automatically. Used with analogReference(). If using more than 12V, the voltage regulator may overheat and damage the board. When the Mega 2560 board is connected to either a computer running Mac OS X or Linux, it resets each time a connection is made to it from software (via USB). SPI: 50 (MISO), 51 (MOSI), 52 (SCK), 53 (SS). The RX and TX LEDs on the board will flash when data is being transmitted via the ATmega8U2/ATmega16U2 chip and USB connection to the computer (but not for serial communication on pins 0 and 1). It's labeled "RESET-EN". When the pin is HIGH value, the LED is on, when the pin is LOW, it's off. The Mega 2560 also supports TWI and SPI communication. Pins 0 and 1 are also connected to the corresponding pins of the ATmega16U2 USB-to-TTL Serial chip. If more than 500 mA is applied to the USB port, the fuse will automatically break the connection until the short or overload is removed. Warnings The Mega 2560 has a resettable polyfuse that protects your computer's USB ports from shorts and overcurrent. One of the hardware flow control lines (DTR) of the ATmega8U2 is connected to the reset line of the ATmega2560 via a 100 nanofarad capacitor. The pads on either side of the trace can be soldered together to re-enable it. The Arduino Software (IDE) includes a Wire library to simplify use of the TWI bus; see the documentation for details. This setup has other implications. The ATmega2560 on the Mega 2560 comes preprogrammed with a bootloader that allows you to upload new code to it without the use of an external hardware programmer. Power The Mega 2560 can be powered via the USB connection or with an external power supply. A properly configured shield can read the IOREF pin voltage and select the appropriate power source or enable voltage translators on the outputs for working with the 5V or 3.3V. If a sketch running on the board receives one-time configuration or other data when it first starts, make sure that the software with which it communicates waits a second after opening the connection and before sending this data. Bring this line LOW to reset the microcontroller. GND. On Rev2 or later boards: there is a resistor that pulling the 8U2/16U2 HWB line to ground, making it easier to put into DFU mode. Three screw holes allow the board to be attached to a surface or case. An ATmega16U2 (ATmega 8U2 on the revision 1 and revision 2 boards) on the board channels one of these over USB and provides a virtual com port to software on the computer (Windows machines will need a .inf file, but OSX and Linux machines will recognize the board as a COM port automatically). A 3.3 volt supply generated by the on-board regulator. See the attachInterrupt() function for details. 3V3. Digital pins 0 to 13 (and the adjacent AREF and GND pins), analog inputs 0 to 5, the power header, and ICSP header are all in equivalent locations. IOREF. SPI is available through the ICSP header on both the Mega 2560 and Duemilanove / Diecimila boards. See also the mapping Arduino Mega 2560 PIN diagram. Revisions The Mega 2560 does not use the FTDI USB-to-serial driver chip used in past designs. PWM: 2 to 13 and 44 to 46. Note that the distance between digital pins 7 and 8 is 160 mil (0.16"), not an even multiple of the 100 mil spacing of the other pins. You may also be able to disable the auto-reset by connecting a 110 ohm resistor from 5V to the reset line; see this forum thread for details. Although most computers provide their own internal protection, the fuse provides an extra layer of protection. Each pin can provide or receive 20 mA as recommended operating condition and has an internal pull-up resistor (disconnected by default) of 20-50 k ohm. Instead, it features the ATmega16U2 (ATmega8U2 in the revision 1 and revision 2 Arduino boards) programmed as a USB-to-serial converter. Revision 3 of the Arduino board and the current Genuino Mega 2560 have the following improved features: 1.0 pinout: SDA and SCL pins - near to the AREF pin - and two other new pins placed near to the RESET pin, the IOREF that allow the shields to adapt to the voltage provided from the board. This pin outputs a regulated 5V from the regulator on the board. Automatic (Software) Reset Rather than requiring a physical press of the reset button before an upload, the Mega 2560 is designed in a way that allows it to be reset by software running on a connected computer. Please note that I2C is not located on the same pins on the Mega 2560 board (20 and 21) as the Duemilanove / Diecimila boards (analog inputs 4 and 5). These pins support SPI communication using the SPI library. Furthermore, the main UART (serial port) is located on the same pins (0 and 1), as are external interrupts 0 and 1 (pins 2 and 3 respectively). You can then use Atmel's FLIP software (Windows) or the DFU programmer (Mac OS X and Linux) to load a new firmware. The ATmega16U2 (or 8U2 in the rev1 and rev2 boards) firmware source code is available in the Arduino repository. Typically used to add a reset button to shields which block the one on the board. Reference voltage for the analog inputs. You can also bypass the bootloader and program the microcontroller through the ICSP (In-Circuit Serial Programming) header using Arduino ISP or similar; see these instructions for details. Revision 2 of the Mega 2560 board has a resistor pulling the 8U2 HWB line to ground, making it easier to put into DFU mode. The Mega 2560 has 16 analog inputs, each of which provide 10 bits of resolution (i.e. 1024 different values). You can supply voltage through this pin, or, if supplying voltage via the power jack, access it through this pin. Supplying voltage via the 5V or 3.3V pins bypasses the regulator, and can damage your board. While it is programmed to ignore malformed data (i.e. anything besides an upload of new code), it will intercept the first few bytes of data sent to the board after a connection is opened. The Mega 2560 board contains a trace that can be cut to disable the auto-reset. It communicates using the original STK500 protocol (reference, C header files). The SPI pins are also broken out on the ICSP header, which is physically compatible with the Arduino /Genuino Uno and the old Duemilanove and Diecimila Arduino boards. By default they measure from ground to 5 volts, though is it possible to change the upper end of their range using the AREF pin and analogReference() function.

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