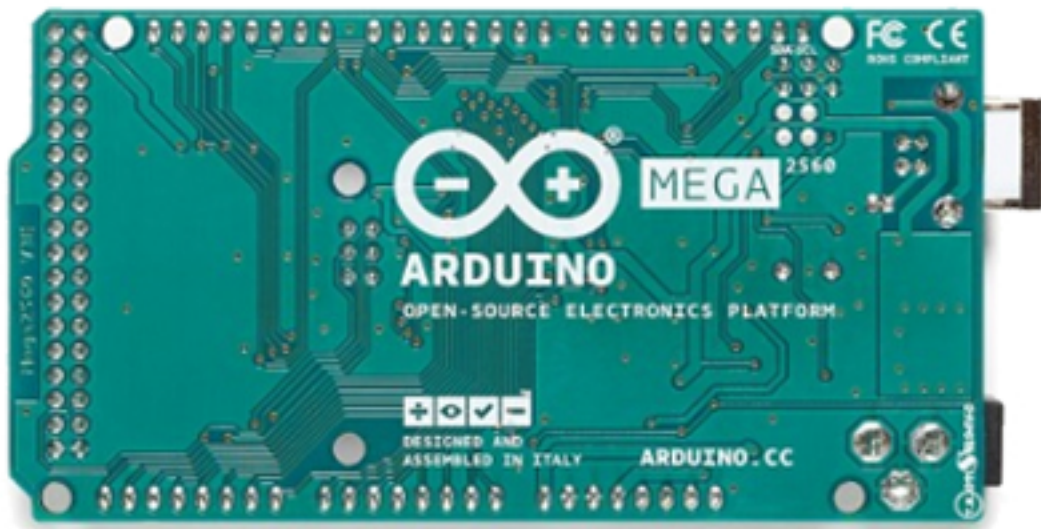




OVERVIEW

TECH SPECS

DOCUMENTATION

FAQ

The **Arduino Mega 2560** is a microcontroller board based on the [ATmega2560](#). It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started. The Mega 2560 board is compatible with most shields designed for the Uno and the former boards Duemilanove or Diecimila.

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Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limit)	6-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 8 KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16 MHz
LED_BUILTIN	13
Length	101.52 mm
Width	53.3 mm
Weight	37 g

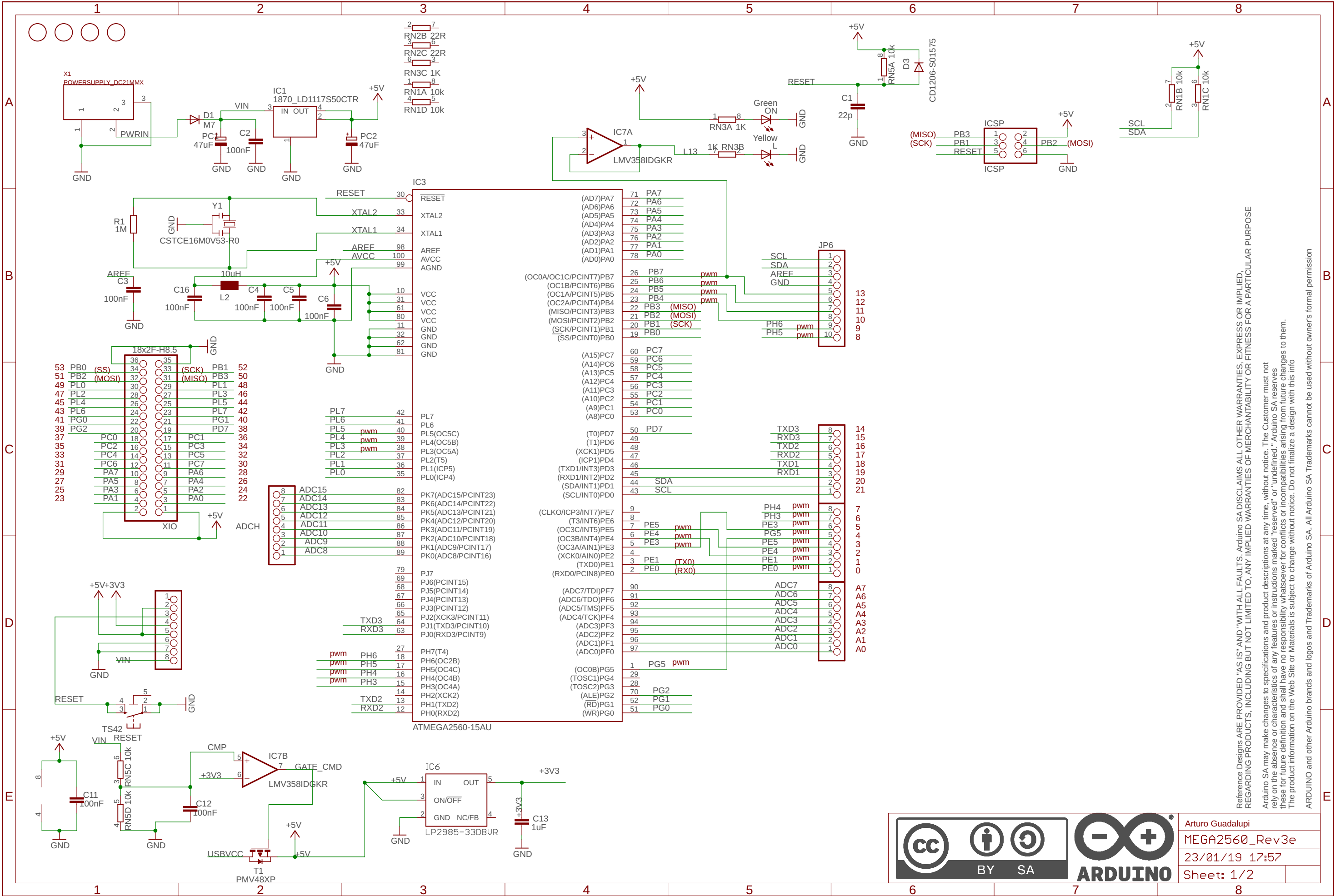
Ordering Information



ES Part No.: 0713-0014-2

MFR Part No: A000067

Arduino Mega 2560 Rev3, ATmega2560, 16MHz,
Flash Memory 256kBytes, SRAM 8kBytes, EEPROM
4kByte, Digital I/O 54 Pins, Analog Input 16 Pins.

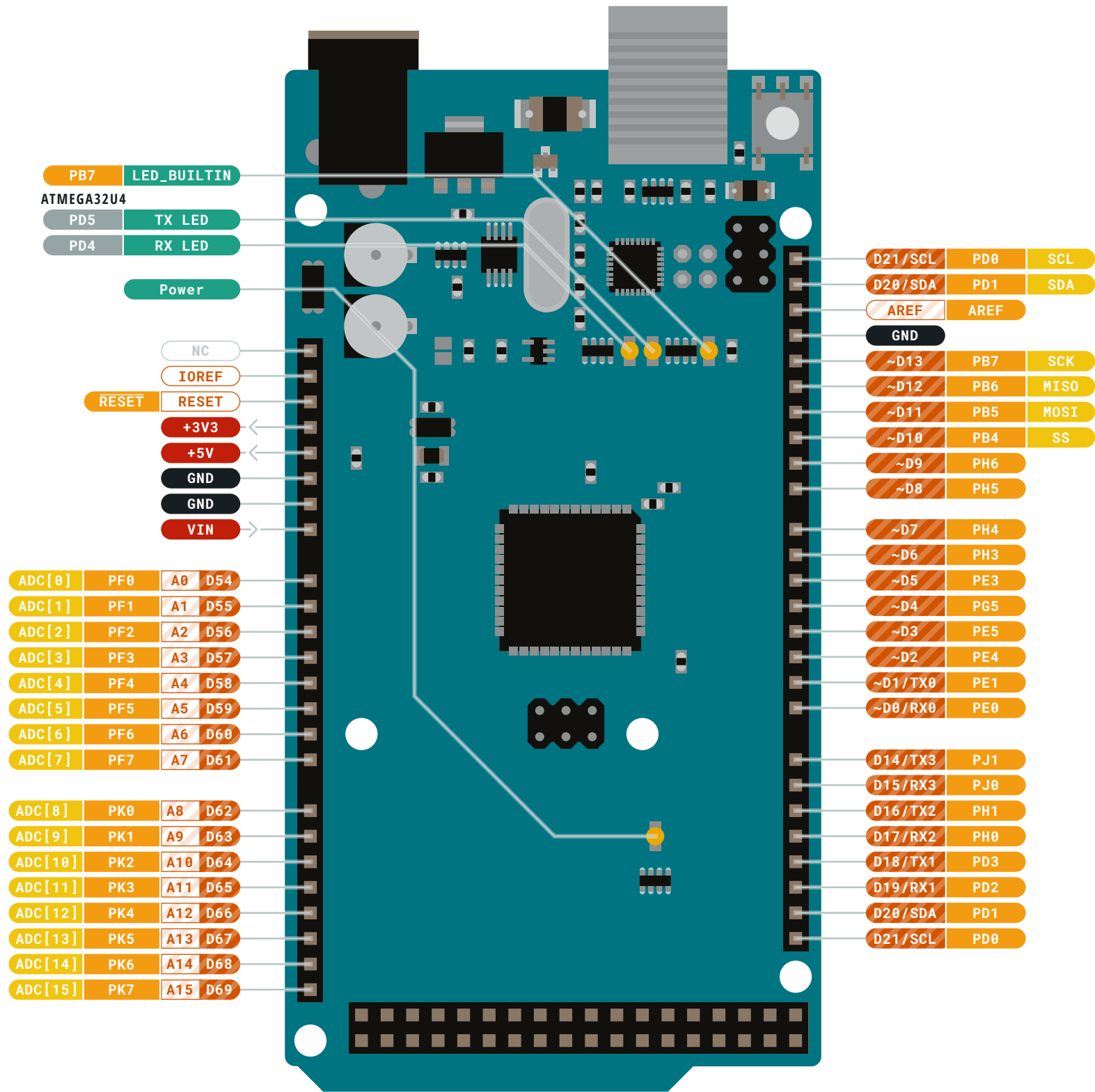


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- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Microcontroller's Port
- Default

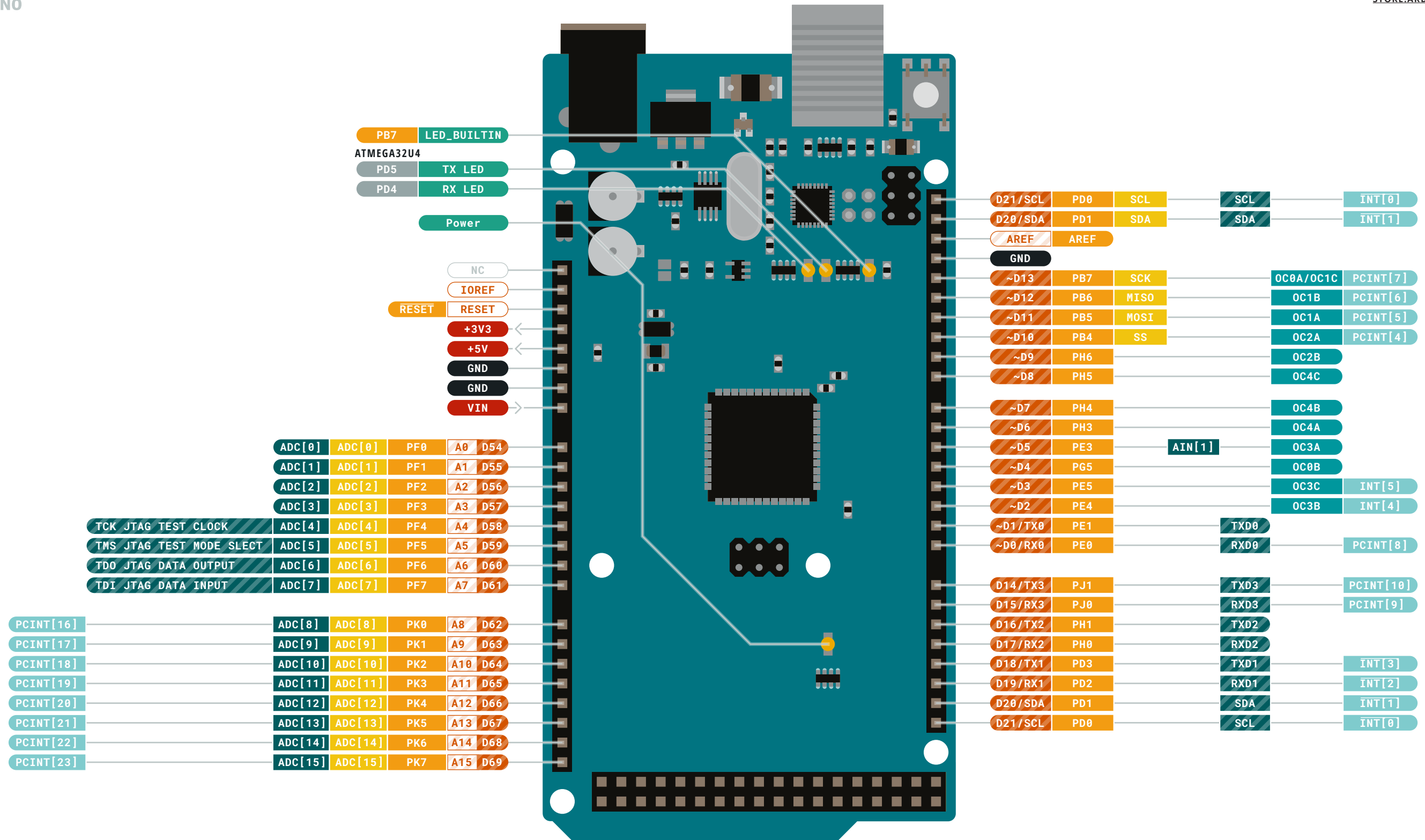
MAXIMUM current per I/O pin is 20mA

MAXIMUM current per +3.3V pin is 50mA

VIN 6-20 V input to the board.



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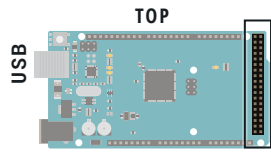
- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Microcontroller's Port
- Default
- Analog
- Communication
- Timer
- Interrupt
- Sercom

MAXIMUM current per I/O pin is 20mA

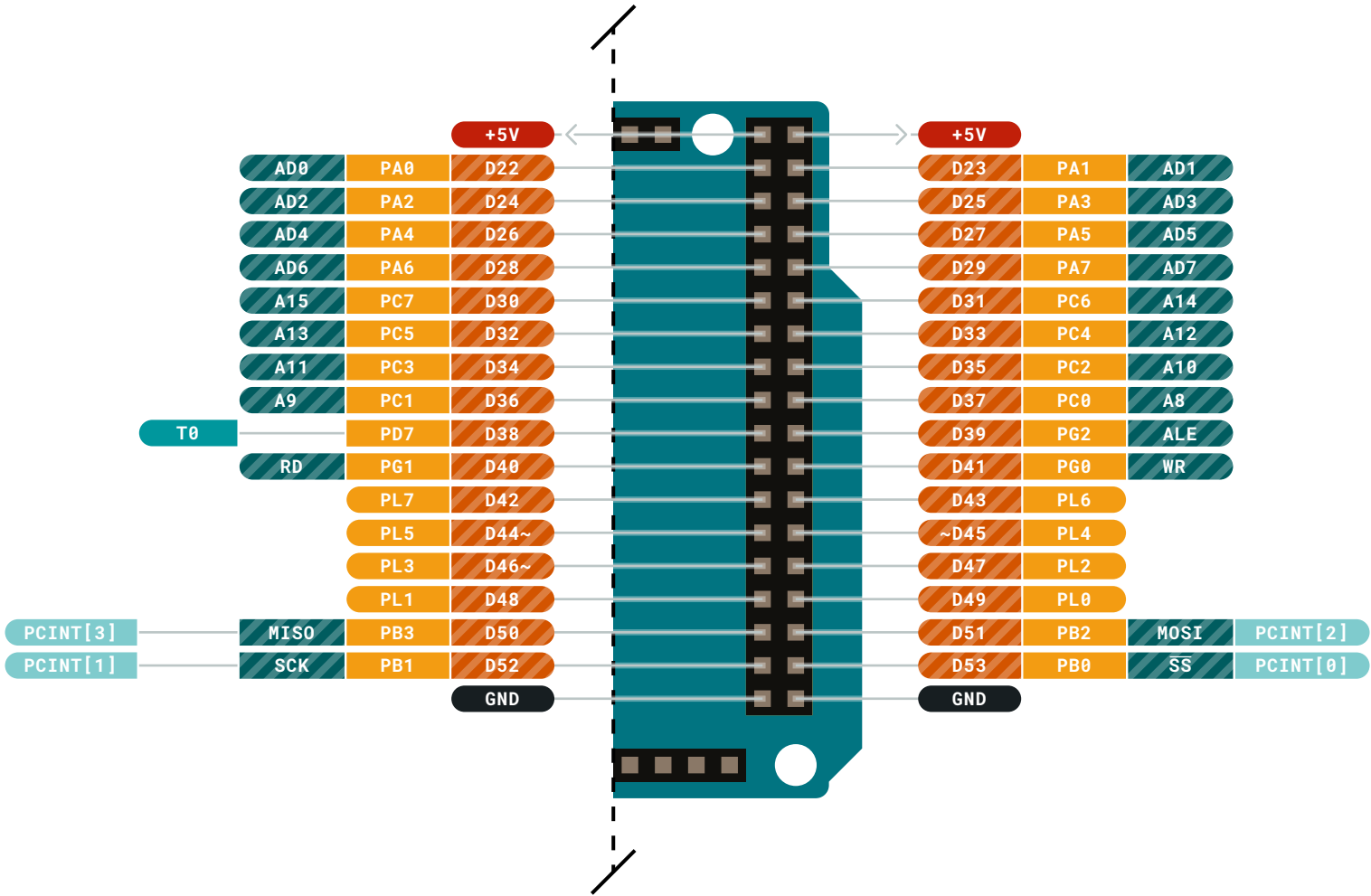
MAXIMUM current per +3.3V pin is 50mA

VIN 6-20 V input to the board.





Digital pins D22-D53

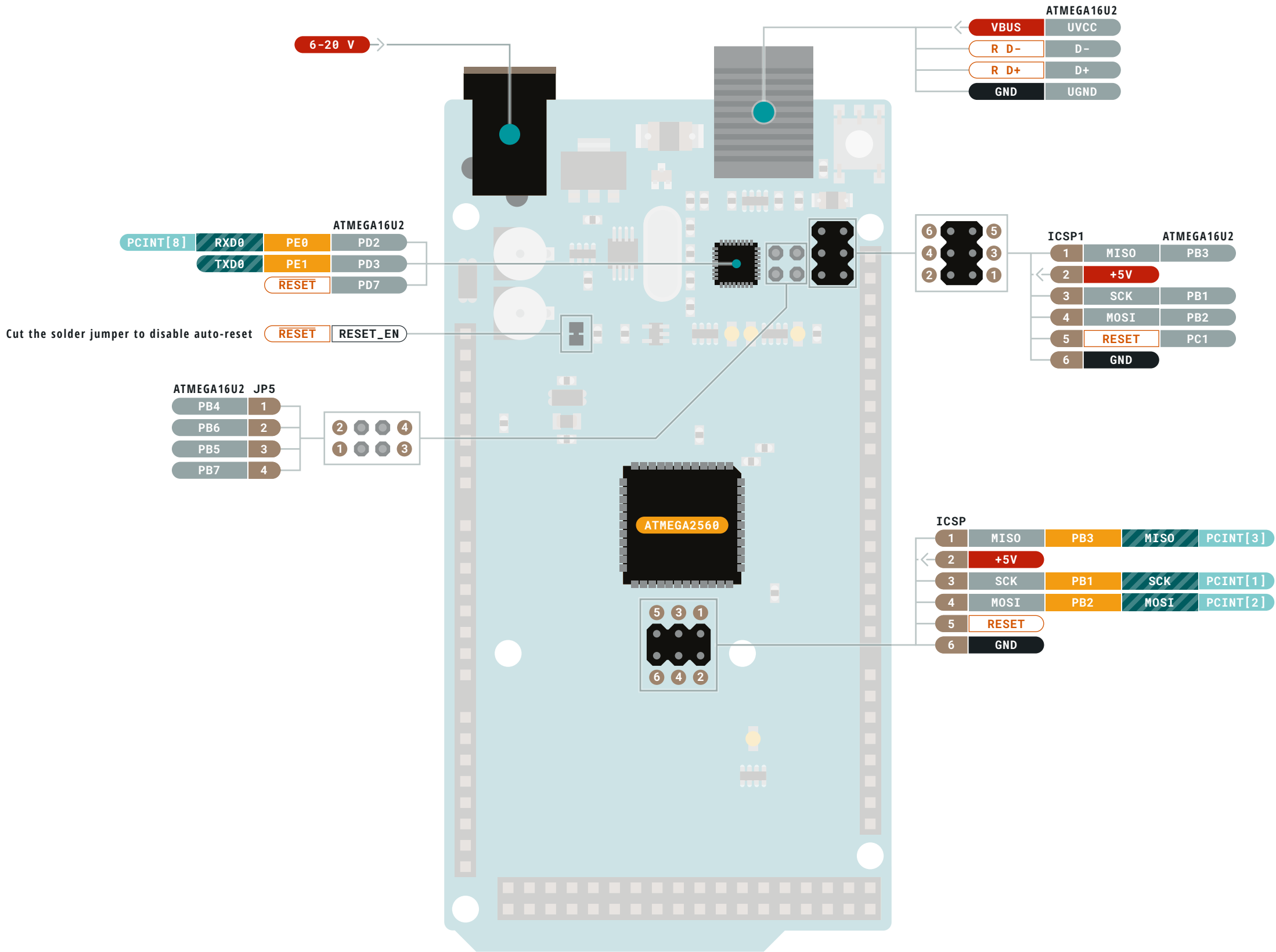


- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Microcontroller's Port
- Default
- Analog
- Communication
- Timer
- Interrupt
- Sercom

MAXIMUM current per I/O pin is 20mA
MAXIMUM current per +3.3V pin is 50mA
VIN 6-20 V input to the board.



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- | | | |
|--------------|------------------------|---------------|
| Ground | Digital Pin | Analog |
| Power | Analog Pin | Communication |
| LED | Other Pin | Timer |
| Internal Pin | Microcontroller's Port | Interrupt |
| SWD Pin | Default | Sercom |

MAXIMUM current per I/O pin is 20mA

MAXIMUM current per +3.3V pin is 50mA

VIN 6-20 V input to the board.



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