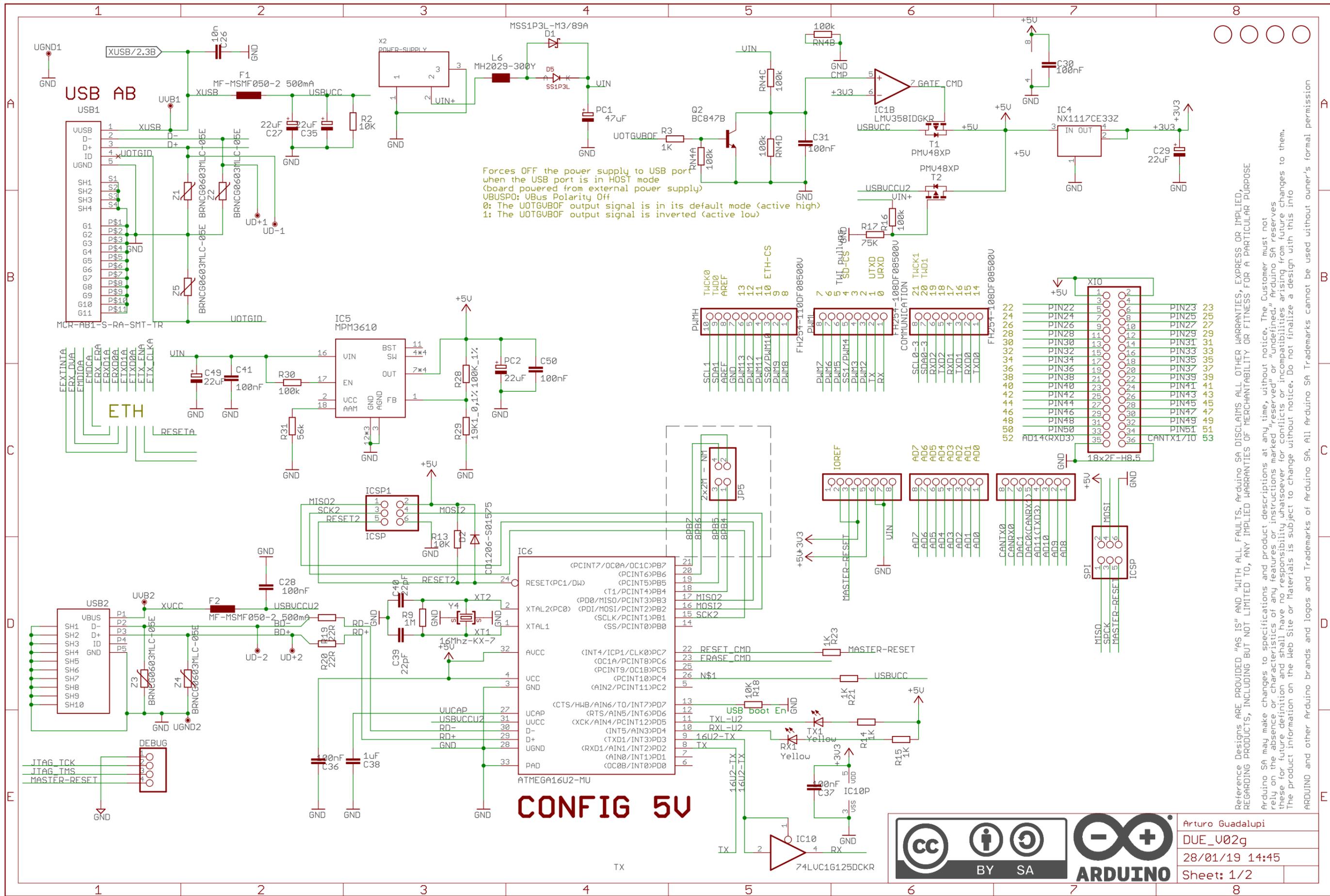

[OVERVIEW](#)
[TECH SPECS](#)
[DOCUMENTATION](#)

The **Arduino Due** is a microcontroller board based on the [Atmel SAM3X8E ARM Cortex-M3 CPU](#). It is the first Arduino board based on a 32-bit ARM core microcontroller. It has 54 digital input/output pins (of which 12 can be used as PWM outputs), 12 analog inputs, 4 UARTs (hardware serial ports), a 84 MHz clock, an USB OTG capable connection, 2 DAC (digital to analog), 2 TWI, a power jack, an SPI header, a JTAG header, a reset button and an erase button.

[OVERVIEW](#)
[TECH SPECS](#)
[DOCUMENTATION](#)

| | |
|--|--|
| Microcontroller | AT91SAM3X8E |
| Operating Voltage | 3.3V |
| Input Voltage (recommended) | 7-12V |
| Input Voltage (limits) | 6-16V |
| Digital I/O Pins | 54 (of which 12 provide PWM output) |
| Analog Input Pins | 12 |
| Analog Output Pins | 2 (DAC) |
| Total DC Output Current on all I/O lines | 130 mA |
| DC Current for 3.3V Pin | 800 mA |
| DC Current for 5V Pin | 800 mA |
| Flash Memory | 512 KB all available for the user applications |
| SRAM | 96 KB (two banks: 64KB and 32KB) |
| Clock Speed | 84 MHz |
| Length | 101.52 mm |
| Width | 53.3 mm |
| Weight | 36 g |

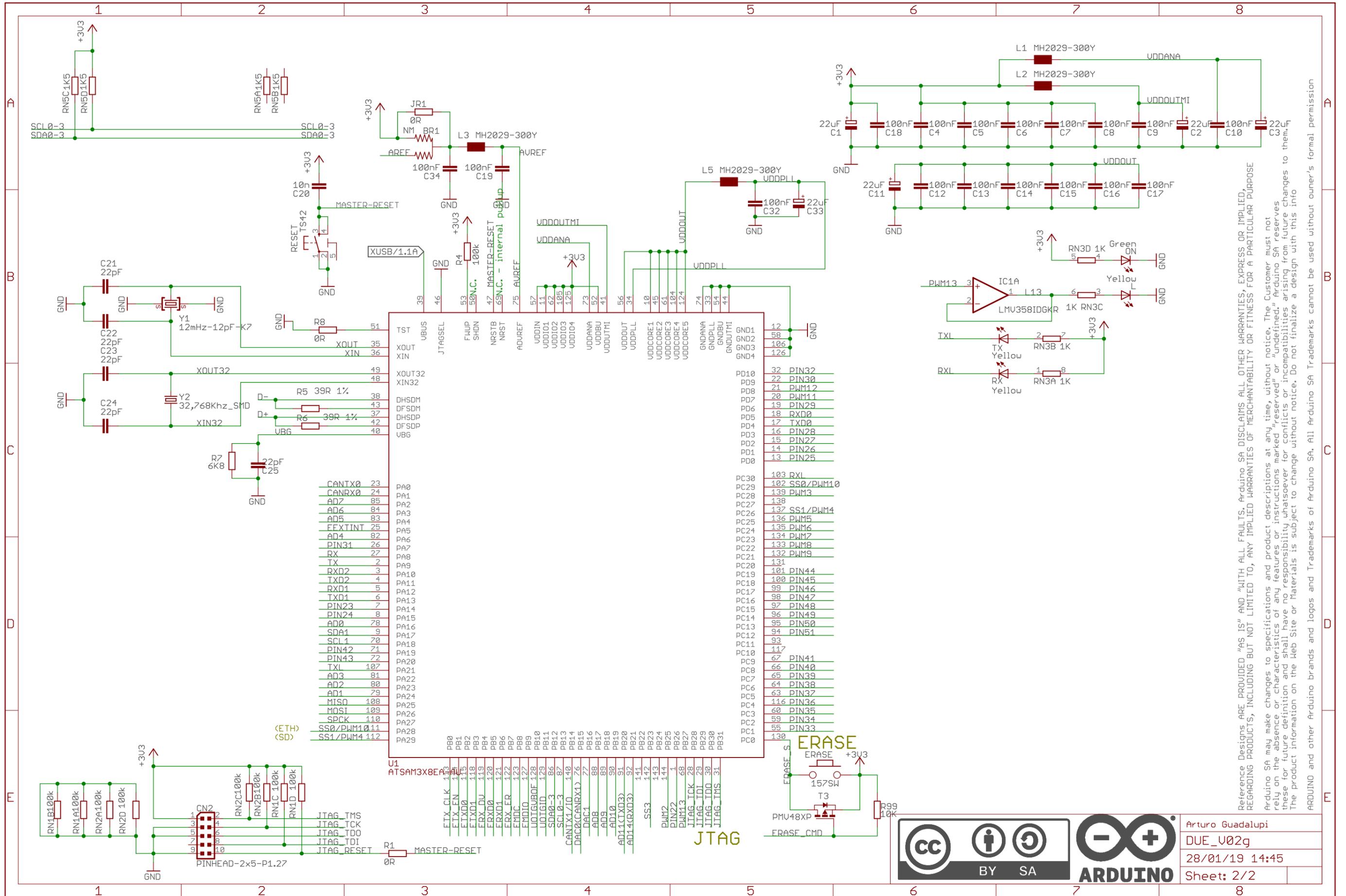


Forces OFF the power supply to USB port when the USB port is in HOST mode (board powered from external power supply)
 UBUSPO: UBus Polarity Off
 0: The UOTGVBOF output signal is in its default mode (active high)
 1: The UOTGVBOF output signal is inverted (active low)

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 DUE_V02g
 28/01/19 14:45
 Sheet: 1/2

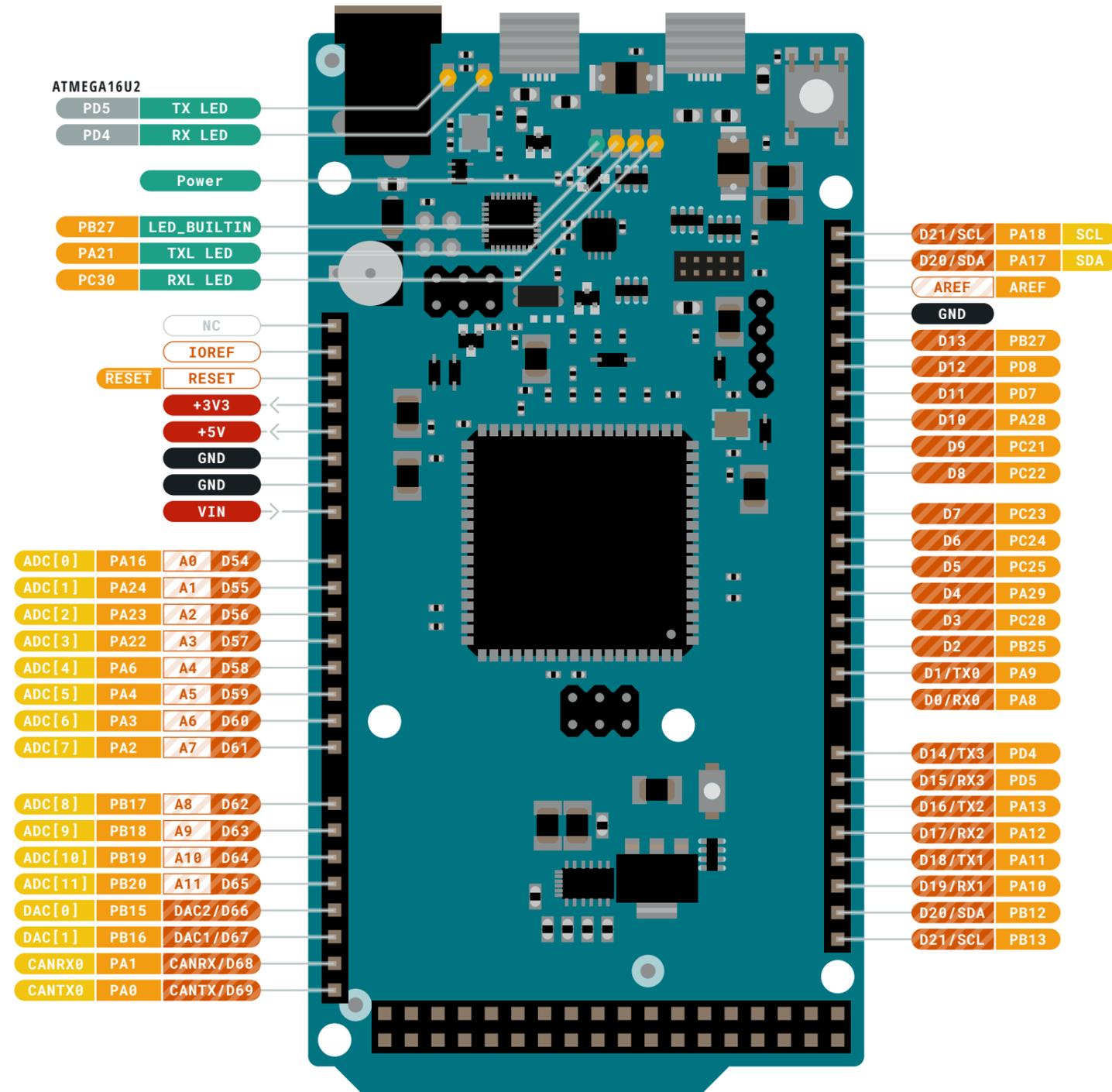


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 28/01/19 14:45
 Sheet: 2/2



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

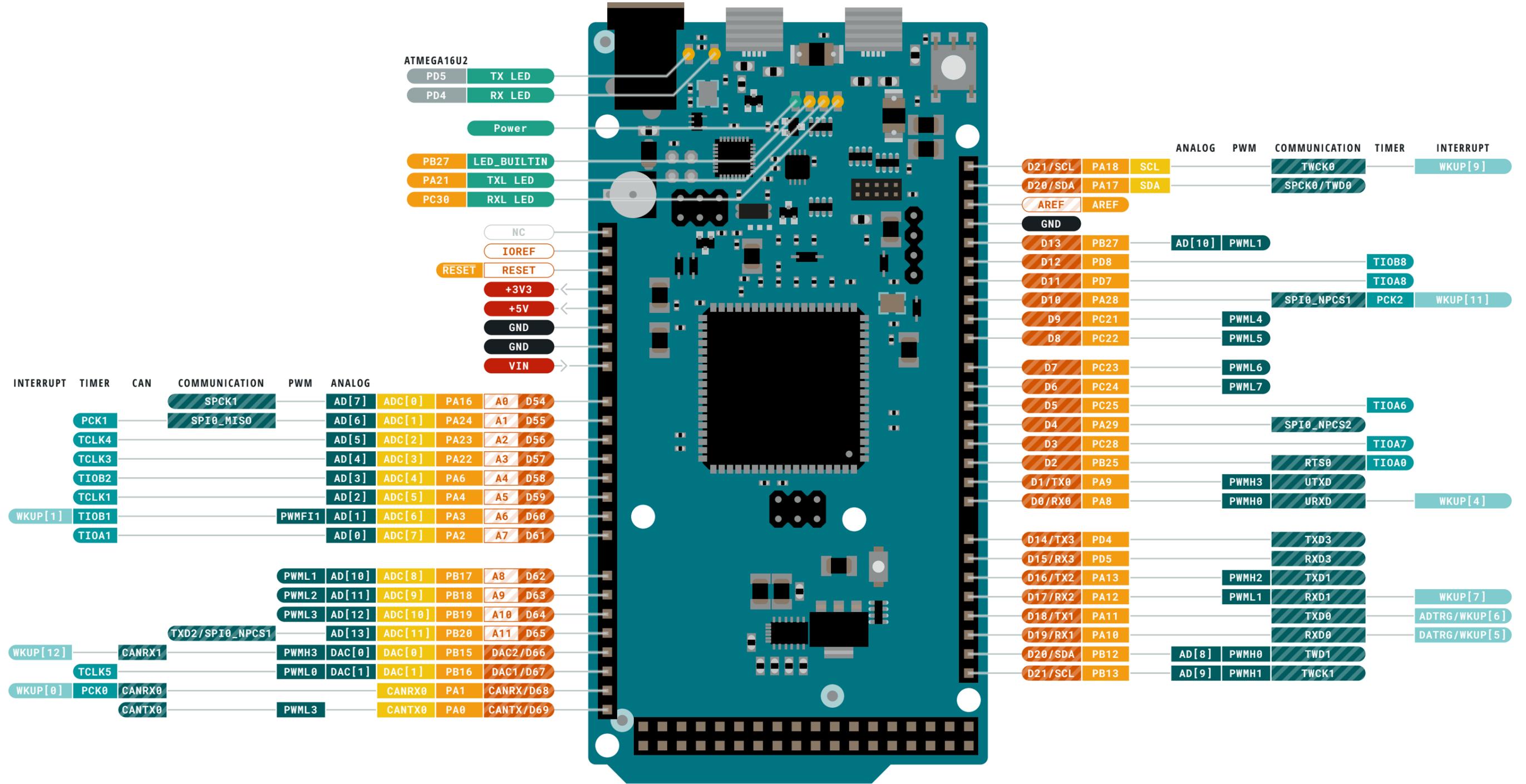
⚠ TOTAL DC OUTPUT current per I/O lines is 130mA

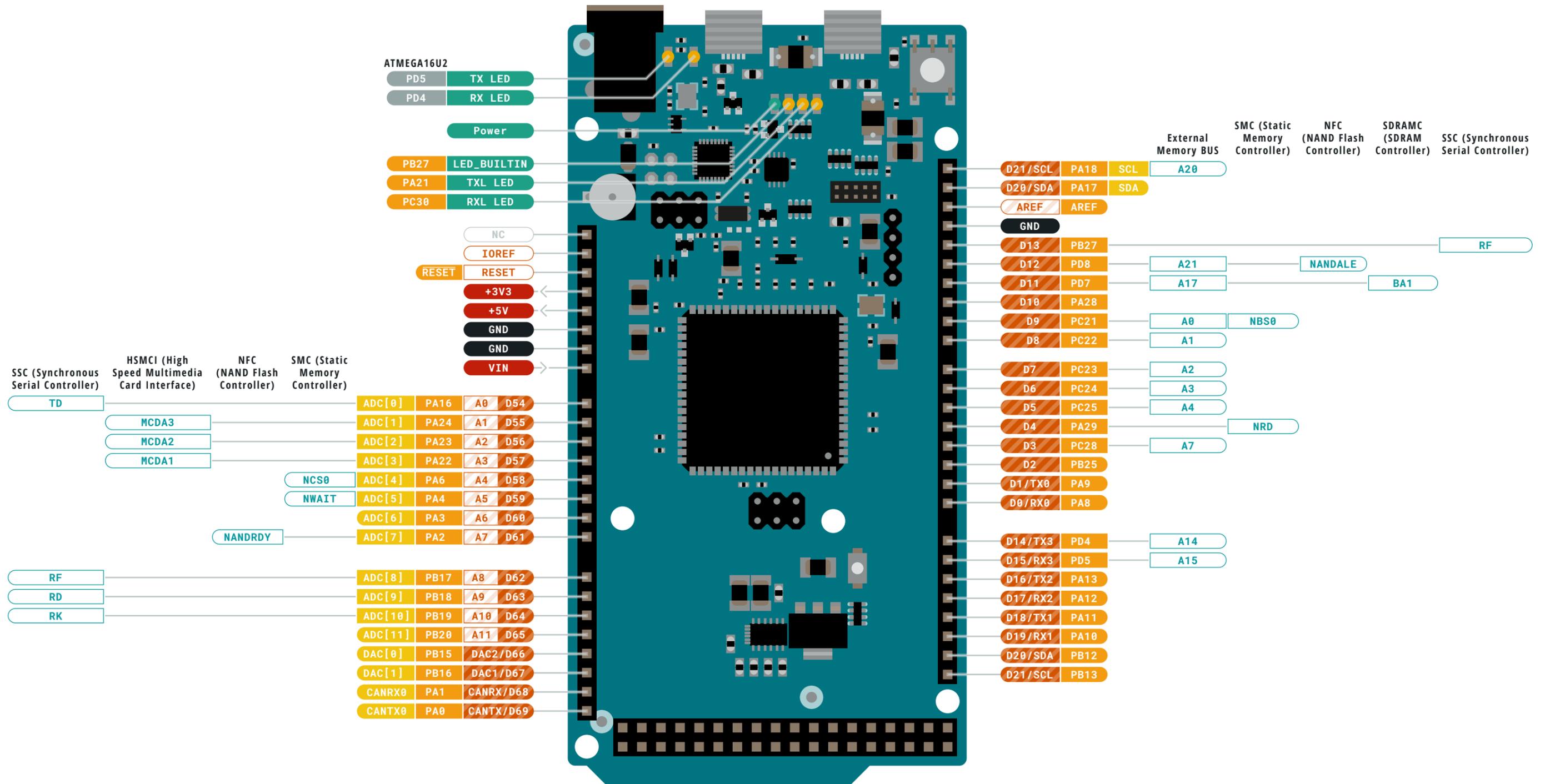
VIN 6-20 V input to the board.

The ADC's channel 15 is not available because connected to the ATSAM3X8E temperature sensor

To check the maximum currents applicable per pins please see the datasheet at STORE.ARDUINO.CC/ARDUINO-DUE







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

TOTAL DC OUTPUT current per I/O lines is 130mA

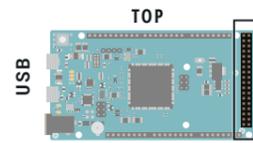
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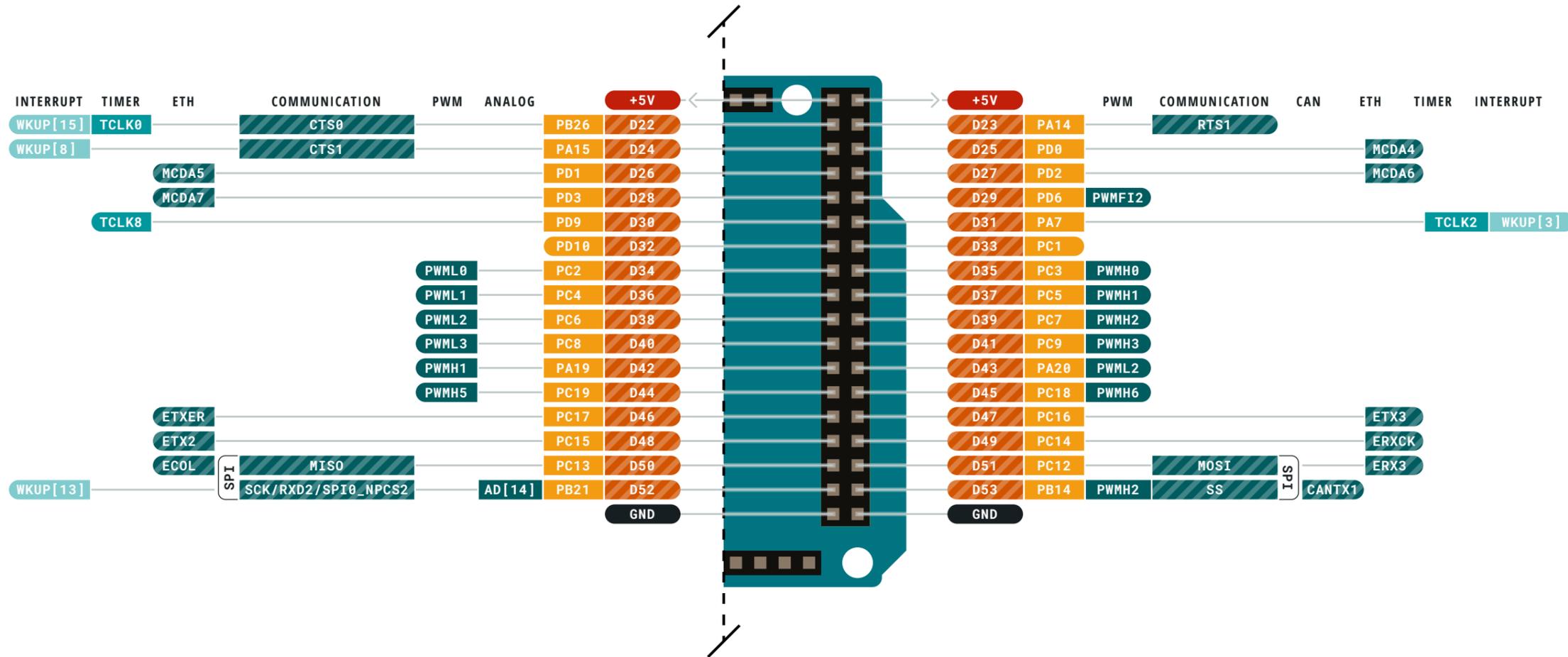
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Digital pins D22-D53



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

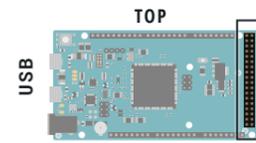
! TOTAL DC OUTPUT current per I/O lines is 130mA

VIN 6-20 V input to the board

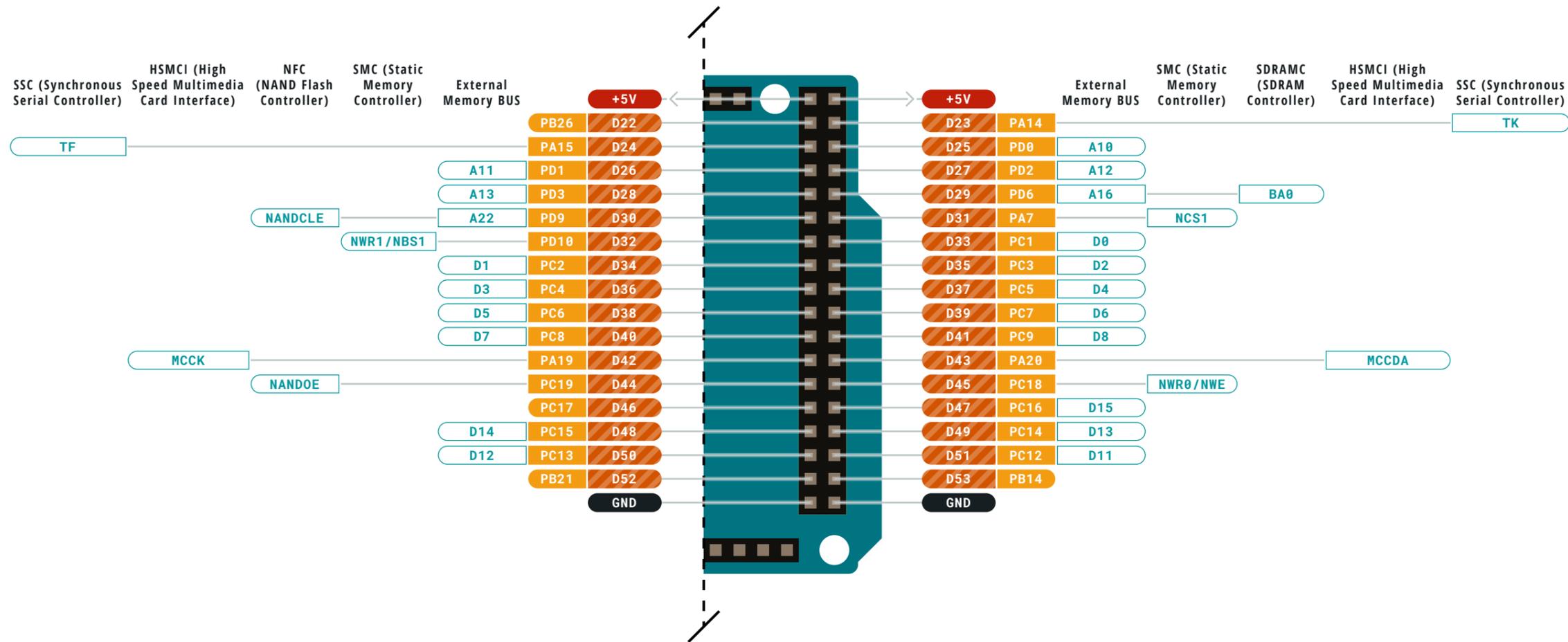
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Digital pins D22-D53



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- Default
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- Timer
- Interrupt
- Memory

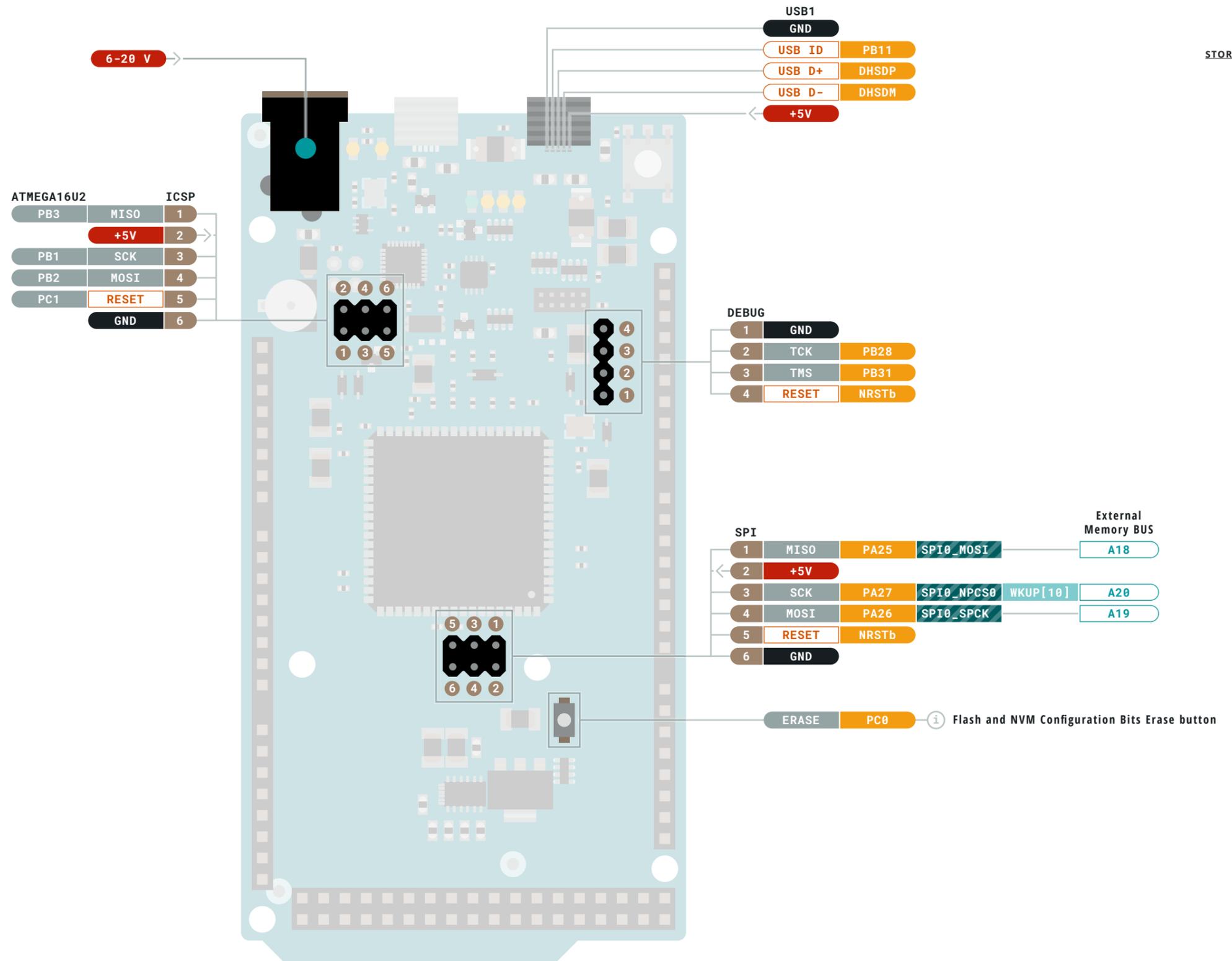
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VIN 6-20 V input to the board

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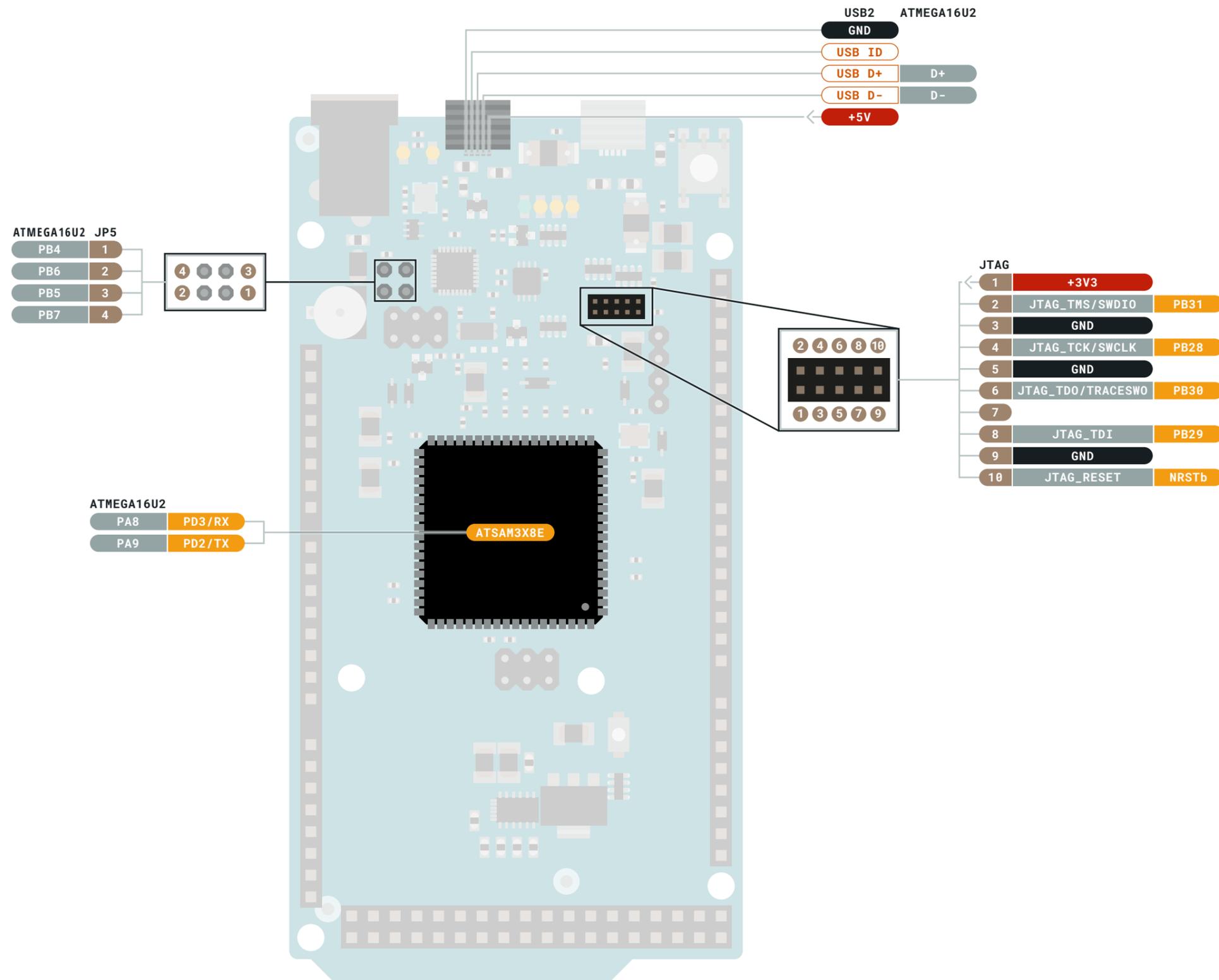
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