ATMEGA328 PINOUT

Legend:
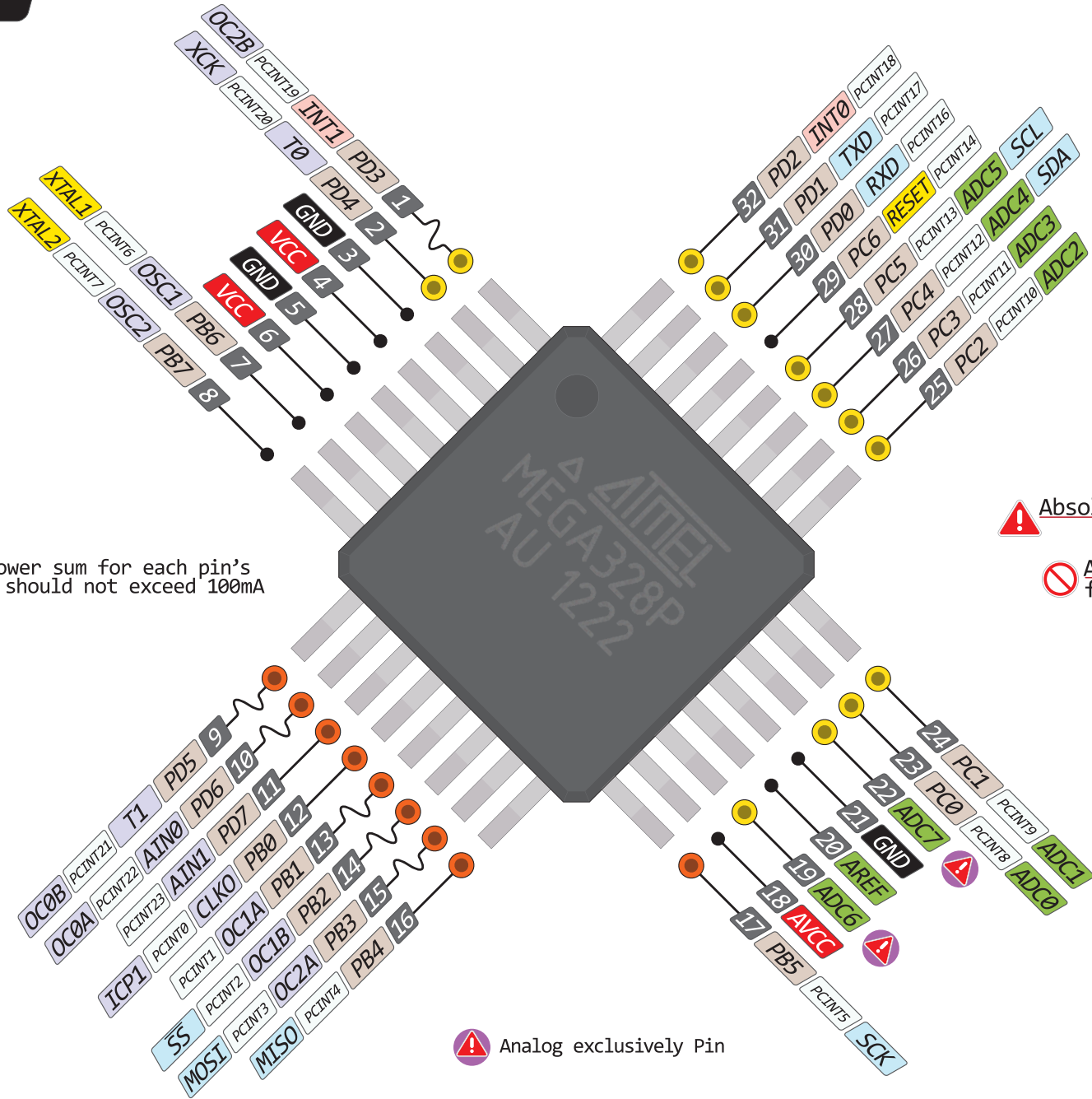- Power
- GND
- Serial Pin
- Analog Pin
- Control
- Pin Change Int
- Physical Pin
- Port Pin
- Pin function
- Ext Interrupt
- PWM Pin
- Port Power ⚠

MEGA328P AU 1222
ATMEL

The power sum for each pin's group should not exceed 100mA

⚠ Absolute MAX per pin 40mA recommended 20mA

🚫 Absolute MAX 200mA for entire package

⚠ Analog exclusively Pin

Top left pins:
- OC2B / PCINT19
- XCK / PCINT20
- INT1 / T0
- PD3 / 1
- PD4 / 2
- GND / 3
- VCC / 4
- GND / 5
- VCC / 6
- PB6 / 7
- PB7 / 8

Left pins:
- XTAL1
- XTAL2 / PCINT6
- OSC1 / PCINT7
- OSC2

Top right pins:
- PD2 / 32 / PCINT18
- PD1 / 31 / INT0 / PCINT17
- PD0 / 30 / TXD / PCINT16
- PC6 / 29 / RXD / PCINT14
- PC5 / 28 / RESET / ADC5 / SCL / PCINT13
- PC4 / 27 / ADC4 / SDA / PCINT12
- PC3 / 26 / ADC3 / PCINT11
- PC2 / 25 / ADC2 / PCINT10

Bottom left pins:
- OC0B / PCINT21 / PD5 / 9
- OC0A / PCINT22 / T1 / AIN0 / PD6 / 10
- PCINT23 / AIN1 / PD7 / 11
- ICP1 / PCINT0 / CLK0 / PB0 / 12
- PCINT1 / OC1A / PB1 / 13
- SS / PCINT2 / OC1B / PB2 / 14
- MOSI / PCINT3 / OC2A / PB3 / 15
- MISO / PCINT4 / PB4 / 16

Bottom right pins:
- PC1 / 24 / PCINT9 / ADC1
- PC0 / 23 / PCINT8 / ADC0
- ADC7 / 22
- GND / 21
- AREF / 20
- ADC6 / 19
- AVCC / 18
- PB5 / 17 / PCINT5 / SCK