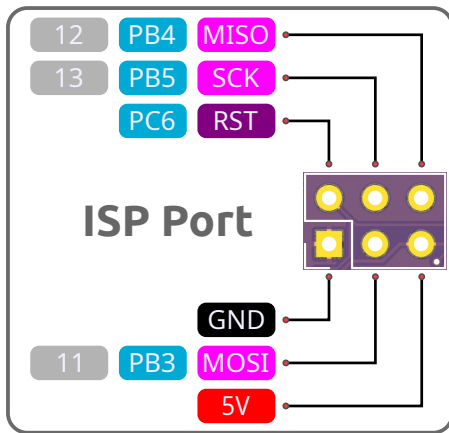# GroundStudio Jade N1+

ATMEGA328PB based development board featuring picoPower® technology for better power management, Peripheral Touch Controller (PTC), **32kBytes** of In-System Self-Programmable **Flash** program memory, **1kBytes EEPROM, 2kBytes** Internal **SRAM, 9 PWM** Channels, **22 Digital Pins**, 2 USART, 2 SPI, 2 I²C and **8 ADC Pins** with **10-bit Resolution**

FABRICAT ÎN ROMÂNIA
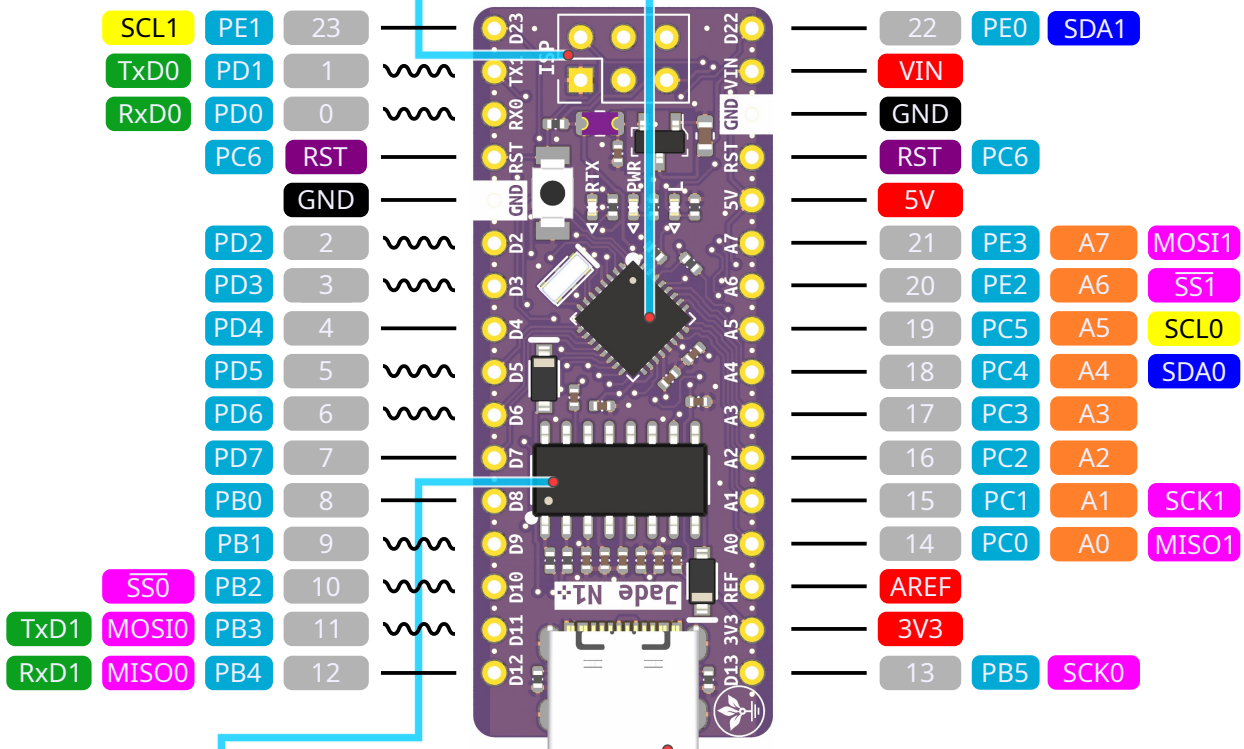
ISP Port

12	PB4	MISO
13	PB5	SCK
	PC6	RST

GND

11	PB3	MOSI
		5V

COLOR DIAGRAM

- Digital Pin Number
- uController Pin
- ADC Channel
- SCL
- SDA
- SPI
- USART Pins
- Ground
- Power
- Others
- PWM Enabled Pin

ATMEGA328PB

The ATmega328PB is a high-performance 8-Bit microcontroller with enhanced RISC architecture

SCL1	PE1	23		
TxD0	PD1	1		
RxD0	PD0	0		
	PC6	RST		
	GND			
	PD2	2		
	PD3	3		
	PD4	4		
	PD5	5		
	PD6	6		
	PD7	7		
	PB0	8		
	PB1	9		
SS0	PB2	10		
TxD1	MOSI0	PB3	11	
RxD1	MISO0	PB4	12	

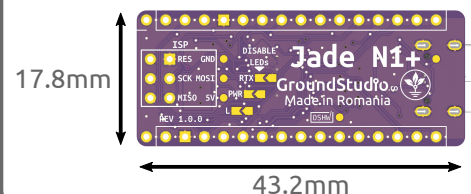|				
22	PE0	SDA1		
	VIN			
	GND			
	RST	PC6		
	5V			
21	PE3	A7	MOSI1	
20	PE2	A6	SS1	
19	PC5	A5	SCL0	
18	PC4	A4	SDA0	
17	PC3	A3		
16	PC2	A2		
15	PC1	A1	SCK1	
14	PC0	A0	MISO1	
	AREF			
	3V3			
13	PB5	SCK0		

USB DRIVER

HT42B534 with built-in 12MHz clock generator . Implements Human Interface Device (HID) protocol for user configure USB VID, PID and device description strings

USB C

USB 2.0 **type C** for double-sided connection

BACK SIDE

17.8mm

43.2mm

Jade N1+
GroundStudio
Made in Romania

GroundStudio.ro