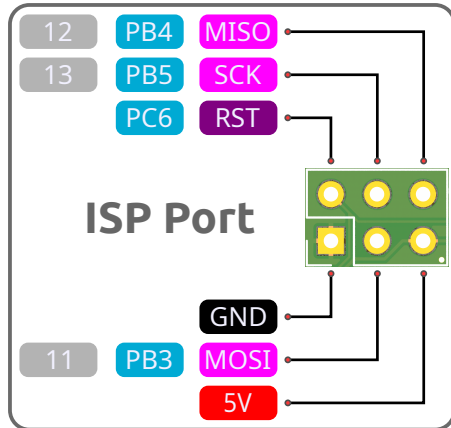# GroundStudio Jade N1

ATMEGA328P based development board with **32kBytes** of In-System Self-Programmable **Flash** program memory, **1kBytes** EEPROM, **2kBytes** Internal **SRAM**, **6 PWM** Channels, **20 Digital Pins** and **8 ADC Pins** with 10 bit Resolution

FABRICAT ÎN ROMÂNIA

ISP Port

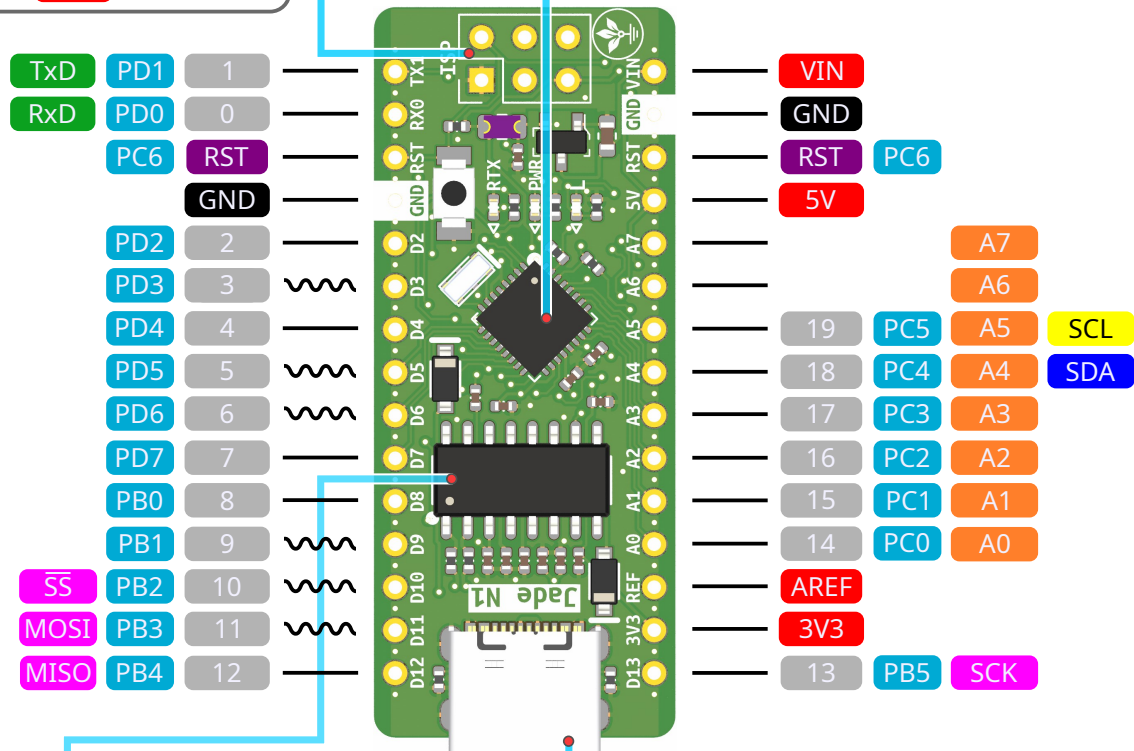| 12 | PB4 | MISO |
| 13 | PB5 | SCK |
| | PC6 | RST |

	GND
11	PB3	MOSI
	5V

ATMEGA328P

Widely popular ATmega328P is a high-performance 8-Bit microcontroller with advanced RISC architecture

COLOR DIAGRAM

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

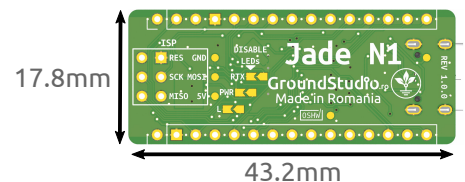| TxD | PD1 | 1 | | VIN |
RxD	PD0	0		GND
	PC6	RST		RST	PC6
		GND		5V
	PD2	2			A7
	PD3	3			A6
	PD4	4		19	PC5	A5	SCL
	PD5	5		18	PC4	A4	SDA
	PD6	6		17	PC3	A3
	PD7	7		16	PC2	A2
	PB0	8		15	PC1	A1
	PB1	9		14	PC0	A0
SS	PB2	10			AREF
MOSI	PB3	11			3V3
MISO	PB4	12		13	PB5	SCK

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

BACK SIDE

Jade N1
GroundStudio.ro
Made in Romania

17.8mm

43.2mm

Board:	GroundStudio Jade N1 LTAYNO_GS REV1.0.0
Credits:	"Arduino Nano V3.3" by Arduino
Copyright:	ARDUSHOP SRL 2024
License:	CC BY-SA 4.0 Attribution-ShareAlike 4.0 International Pinout REV: 1

GroundStudio.ro