GroundStudio Jade MEGA
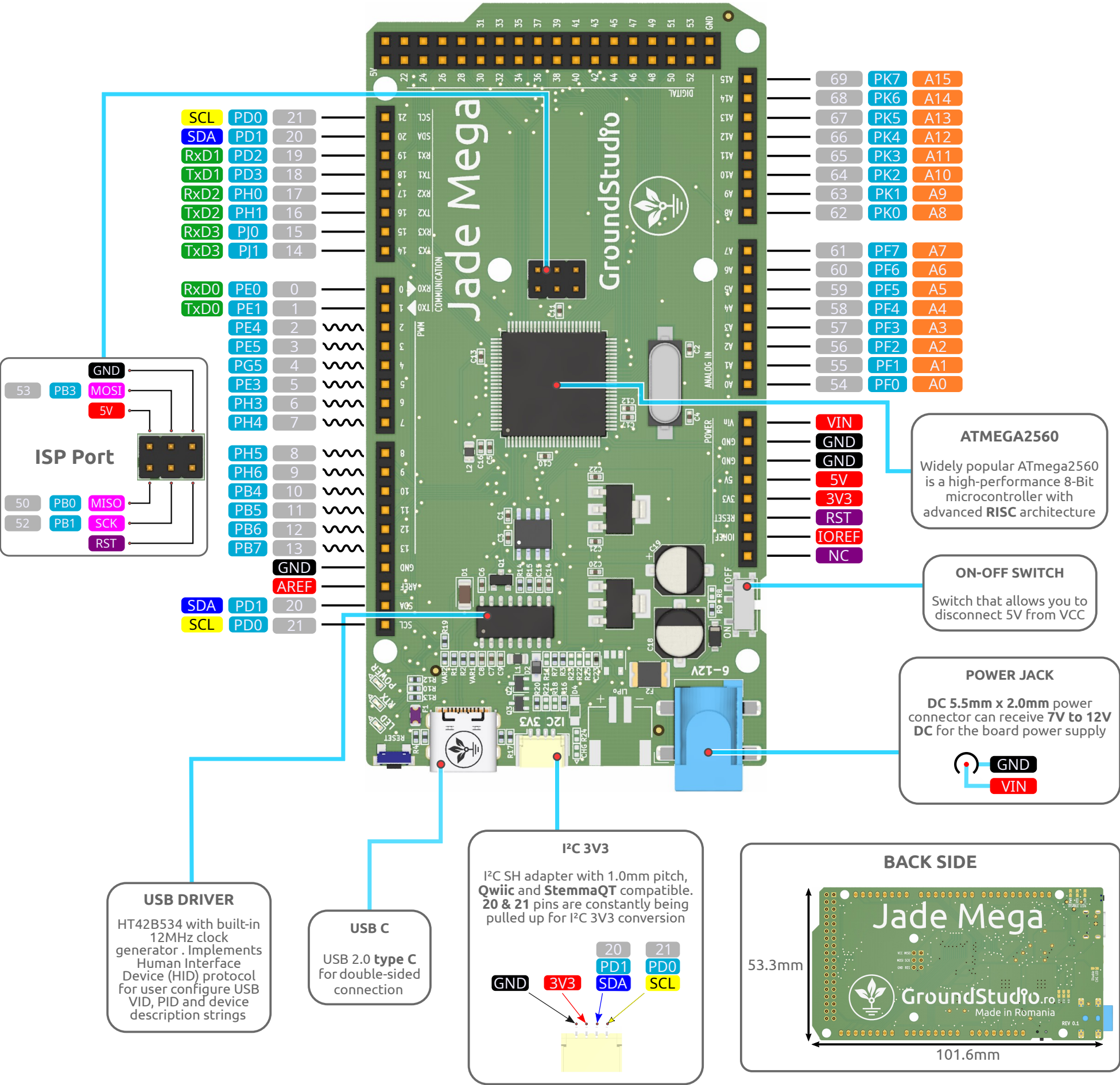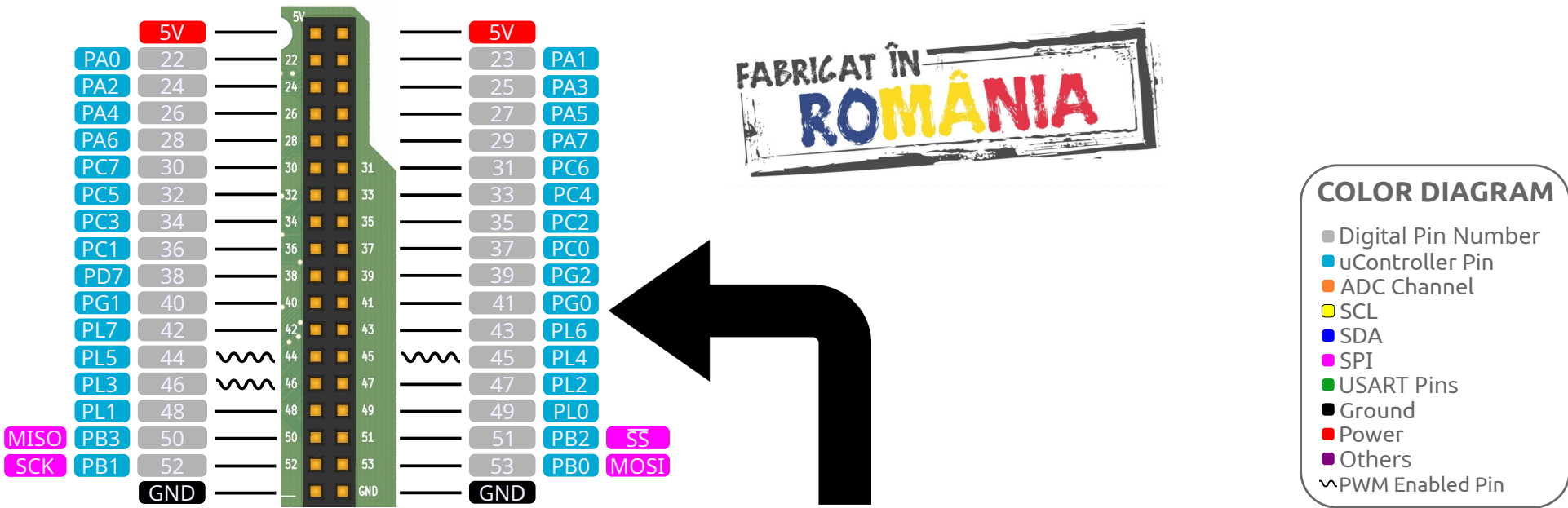
ATMEGA2560 based development board with **256kBytes** of In-System Self-Programmable **Flash** program memory, **4kBytes EEPROM**, **8kBytes** Internal **SRAM**, **15 PWM** Channels, **70 Digital Pins** including **16** channel **10 bit ADC Pins**

FABRICAT ÎN ROMÂNIA

COLOR DIAGRAM

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

Header pins (top block)

5V					5V	
PA0	22			23	PA1	
PA2	24			25	PA3	
PA4	26			27	PA5	
PA6	28			29	PA7	
PC7	30			31	PC6	
PC5	32			33	PC4	
PC3	34			35	PC2	
PC1	36			37	PC0	
PD7	38			39	PG2	
PG1	40			41	PG0	
PL7	42			43	PL6	
PL5	44			45	PL4	
PL3	46			47	PL2	
PL1	48			49	PL0	
MISO PB3	50			51	PB2	SS
SCK PB1	52			53	PB0	MOSI
GND				GND		

Communication / PWM pins

SCL	PD0	21	
SDA	PD1	20	
RxD1	PD2	19	
TxD1	PD3	18	
RxD2	PH0	17	
TxD2	PH1	16	
RxD3	PJ0	15	
TxD3	PJ1	14	
RxD0	PE0	0	
TxD0	PE1	1	
	PE4	2	PWM
	PE5	3	PWM
	PG5	4	PWM
	PE3	5	PWM
	PH3	6	PWM
	PH4	7	PWM
	PH5	8	PWM
	PH6	9	PWM
	PB4	10	PWM
	PB5	11	PWM
	PB6	12	PWM
	PB7	13	PWM
GND			
AREF			
SDA	PD1	20	
SCL	PD0	21	

Analog In / right side

69	PK7	A15	
68	PK6	A14	
67	PK5	A13	
66	PK4	A12	
65	PK3	A11	
64	PK2	A10	
63	PK1	A9	
62	PK0	A8	
61	PF7	A7	
60	PF6	A6	
59	PF5	A5	
58	PF4	A4	
57	PF3	A3	
56	PF2	A2	
55	PF1	A1	
54	PF0	A0	

Power pins

VIN
GND
GND
5V
3V3
RST
IOREF
NC

ISP Port

53	PB3	
	MOSI	
	5V	
50	PB0	MISO
52	PB1	SCK
	RST	
GND		

ATMEGA2560

Widely popular ATmega2560 is a high-performance 8-Bit microcontroller with advanced **RISC** architecture

ON-OFF SWITCH

Switch that allows you to disconnect 5V from VCC

POWER JACK

DC 5.5mm x 2.0mm power connector can receive **7V to 12V DC** for the board power supply

GND
VIN

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

I²C 3V3

I²C SH adapter with 1.0mm pitch, **Qwiic** and **StemmaQT** compatible. **20 & 21** pins are constantly being pulled up for I²C 3V3 conversion

20	21
PD1	PD0

GND 3V3 SDA SCL

BACK SIDE

Jade Mega

53.3mm
101.6mm

Made in Romania
REV 0.1

Board: "GroundStudio Jade Mega" JJDBMT_GS REV0.1

Credits: "Arduino Mega 2560 Rev3" by Arduino

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Pinout REV: 1

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