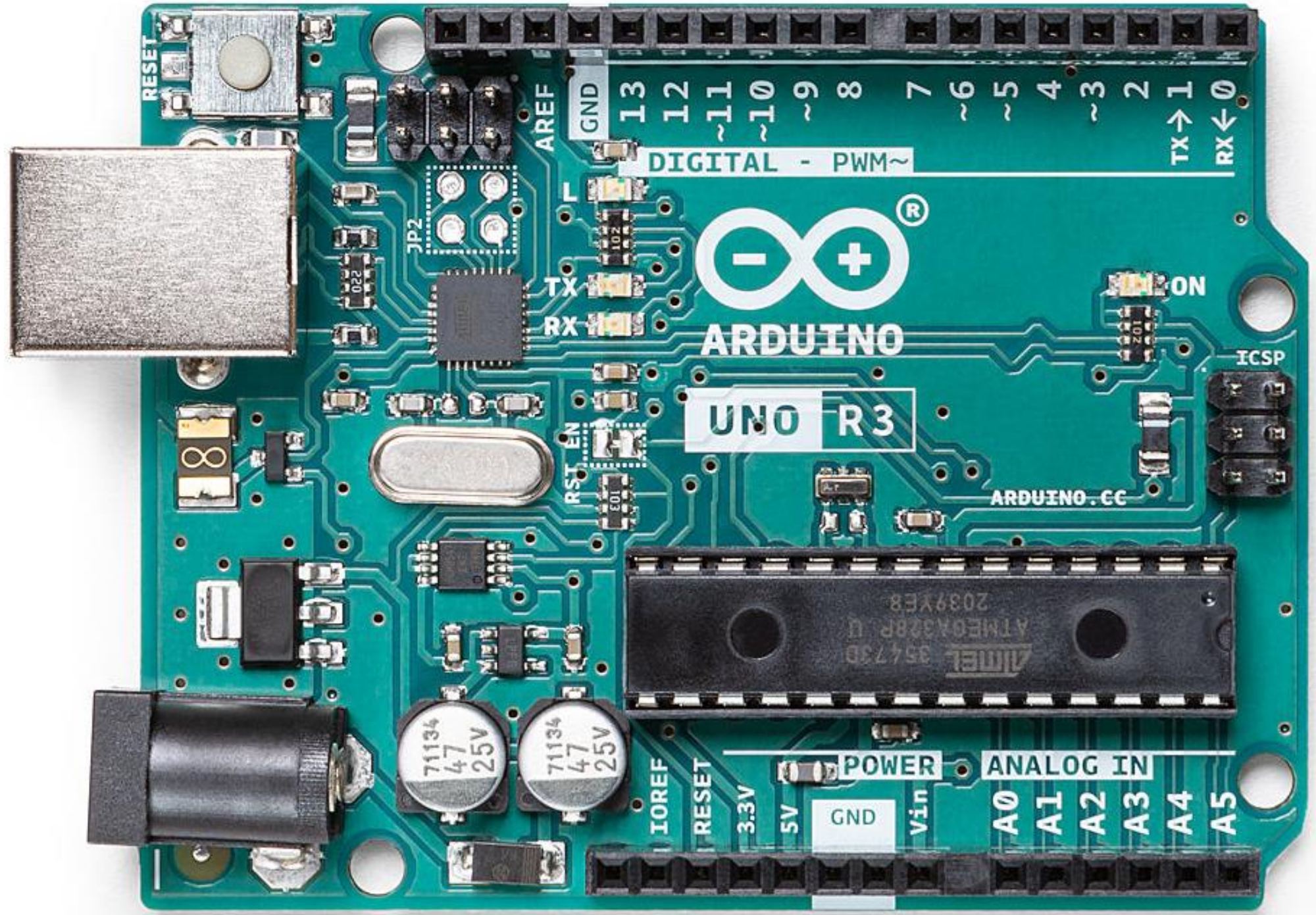
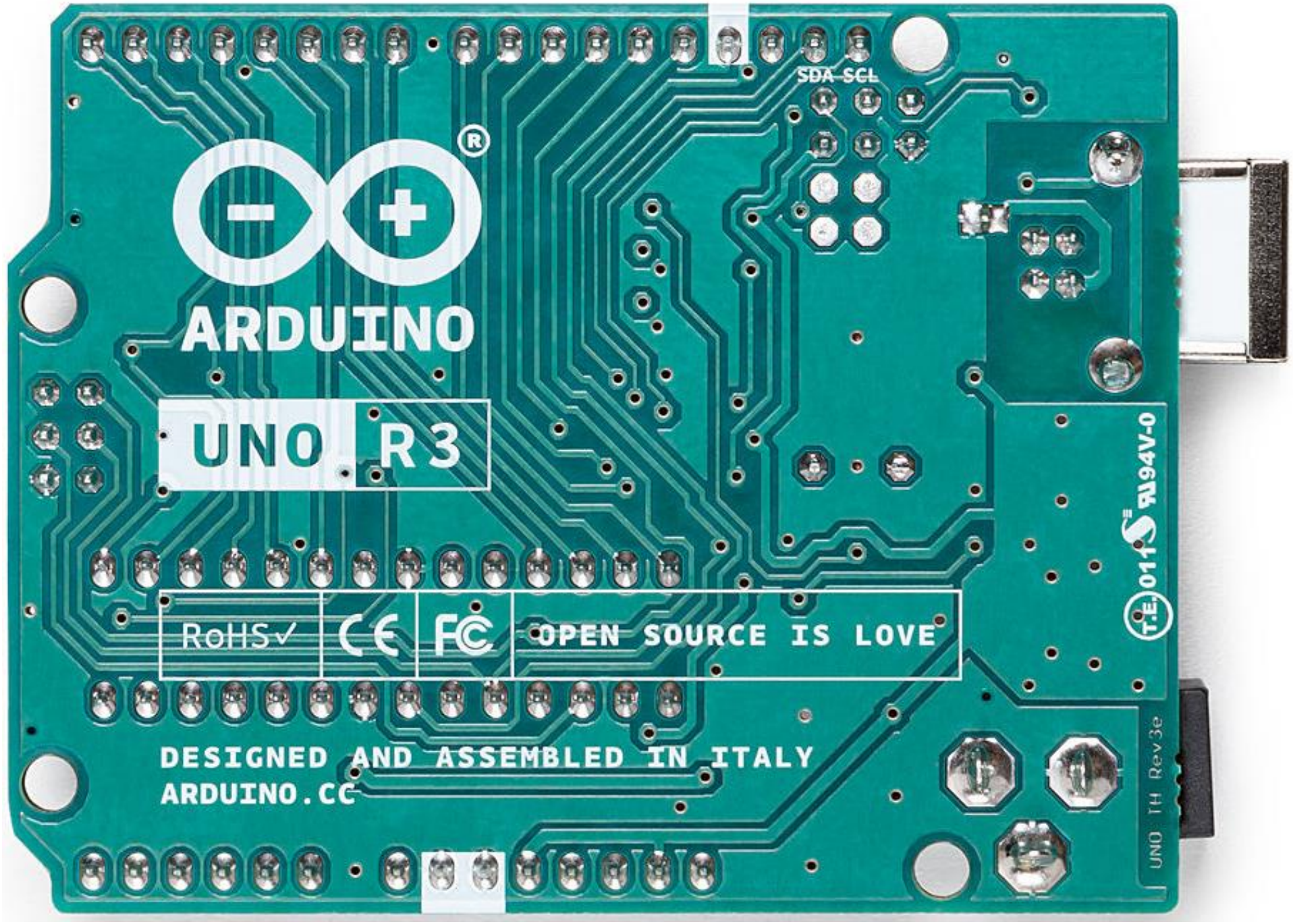
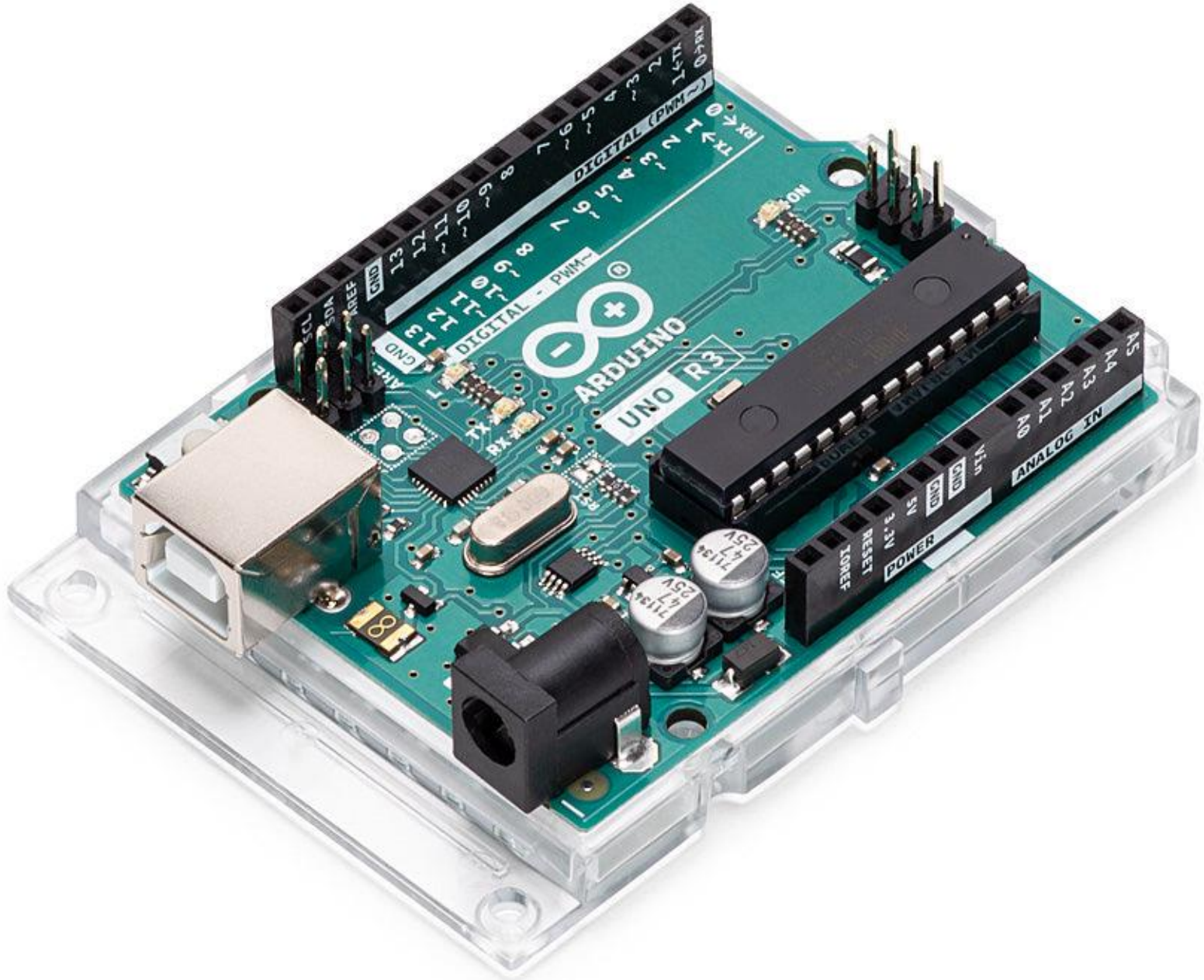
Lab Eletrônica Especializada

Arduino UNO


RESET
AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX→1
RX←0
DIGITAL - PWM~
JP2
TX
RX
ON
ARDUINO
ICSP
UNO R3
RST EN
ARDUINO.CC
ATMEGA328P
2039YE8
ATMEL
35473D
71134
47
25V
IOREF
RESET
3.3V
5V
GND
Vin
POWER
ANALOG IN
A0
A1
A2
A3
A4
A5


SDA SCL
ARDUINO
UNO R3
RoHS✓
OPEN SOURCE IS LOVE
DESIGNED AND ASSEMBLED IN ITALY
ARDUINO.CC
UNO TH Rev3e


DIGITAL (PWM~)
DIGITAL - PWM~
ARDUINO
UNO R3
ON
POWER
ANALOG IN

Arduino Uno

É uma placa microcontrolada baseada no ATmega328P. Possui 14 pinos de entrada/saída digital (dos quais 6 podem ser usados como saídas PWM), 6 entradas analógicas, um ressonador cerâmico de 16 MHz (CSTCE16M0V53-R0), uma conexão USB, um conector de alimentação, um conector ICSP e um botão de reset . Ele contém tudo o que é necessário para dar suporte ao microcontrolador; basta conectá-lo a um computador com um cabo USB ou alimentá-lo com um adaptador AC-to-DC ou bateria para começar.

Arduino Uno

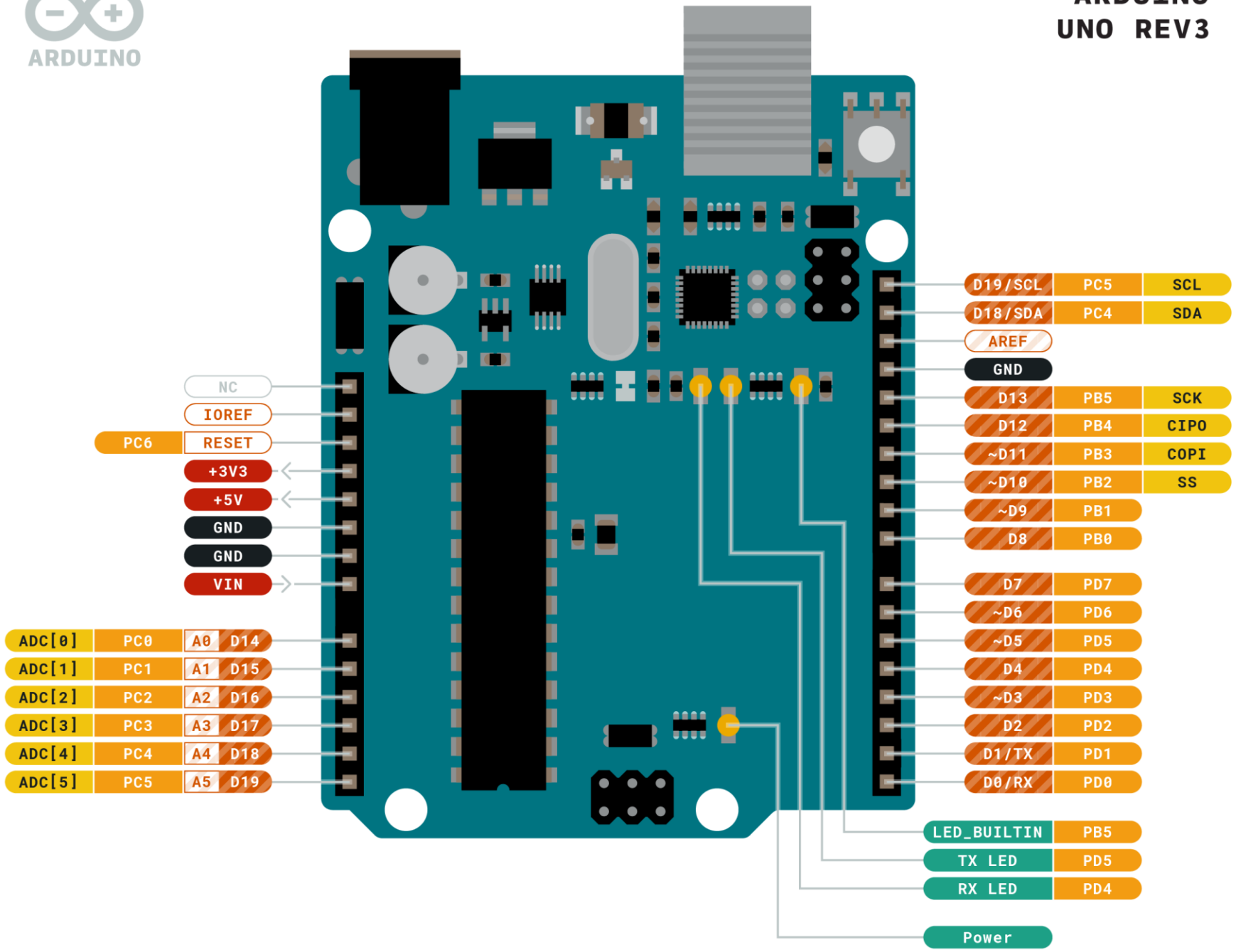
MICROCONTROLADOR	ATmega328P
TENSÃO OPERACIONAL	5V
TENSÃO DE ENTRADA (RECOMENDADO)	7-12V
TENSÃO DE ENTRADA (LIMITE)	6-20V
PINOS DE E/S DIGITAIS	14 (dos quais 6 fornecem saída PWM)
PINOS DE E/S DIGITAL PWM	6
PINOS DE ENTRADA ANALÓGICA	6

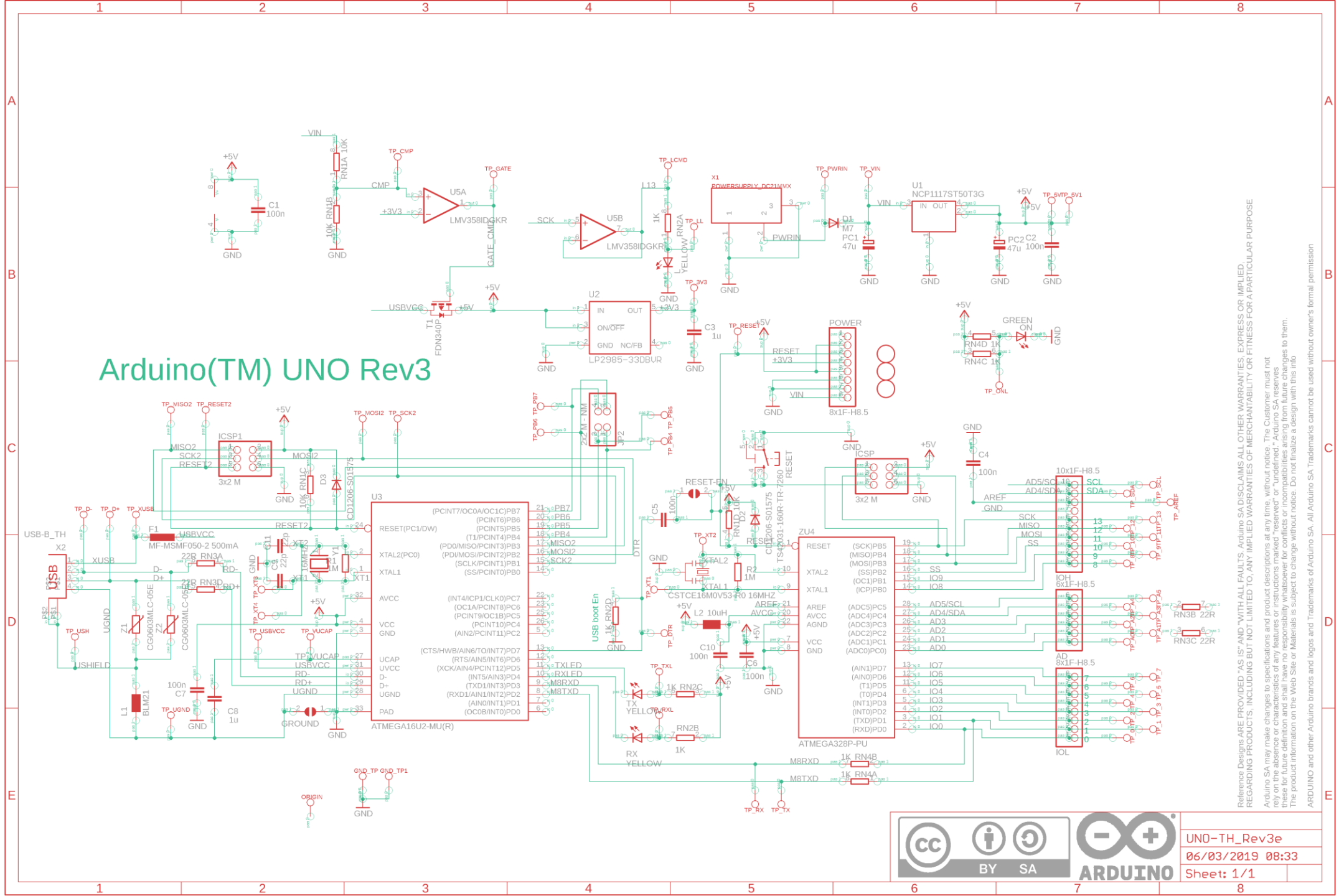
Arduino Uno

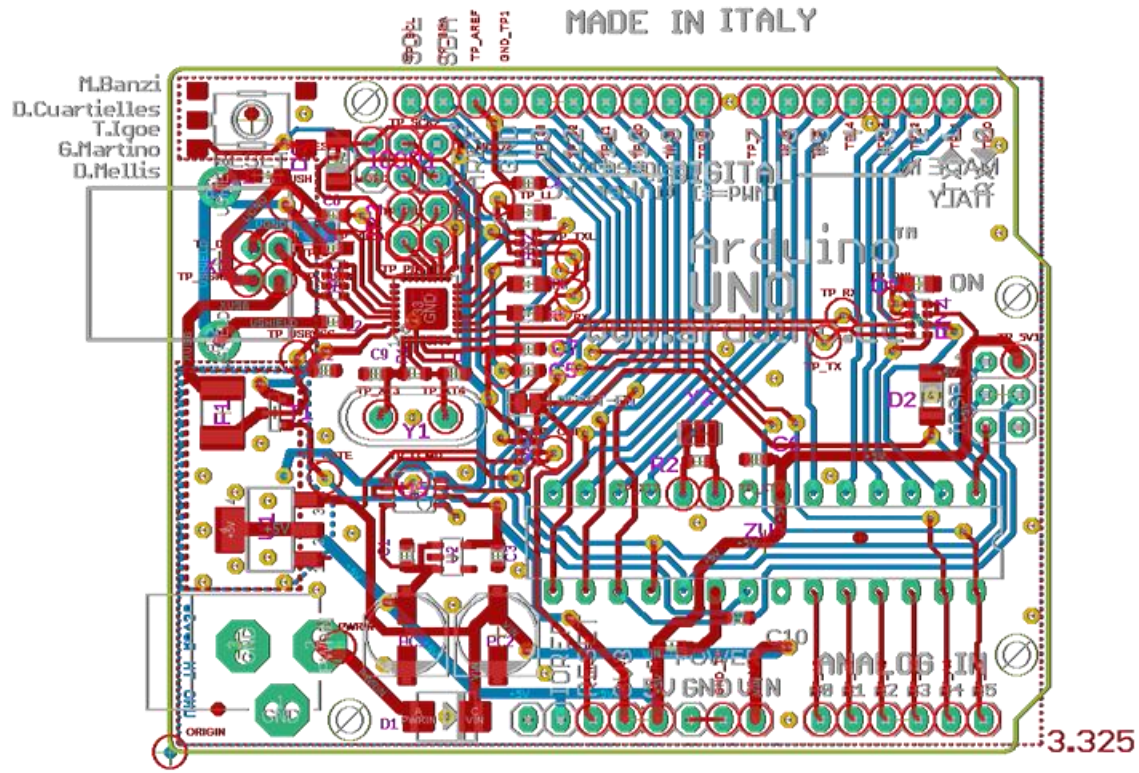
CORRENTE CC POR PINO DE E/S	20 mA
CORRENTE CC PARA PINO DE 3,3 V	50 mA
MEMÓRIA FLASH	32 KB (ATmega328P) dos quais 0,5 KB usados pelo bootloader
SRAM	2 KB (ATmega328P)
EEPROM	1 KB (ATmega328P)
VELOCIDADE DO RELÓGIO	16MHz
LED_BUILTIN	13

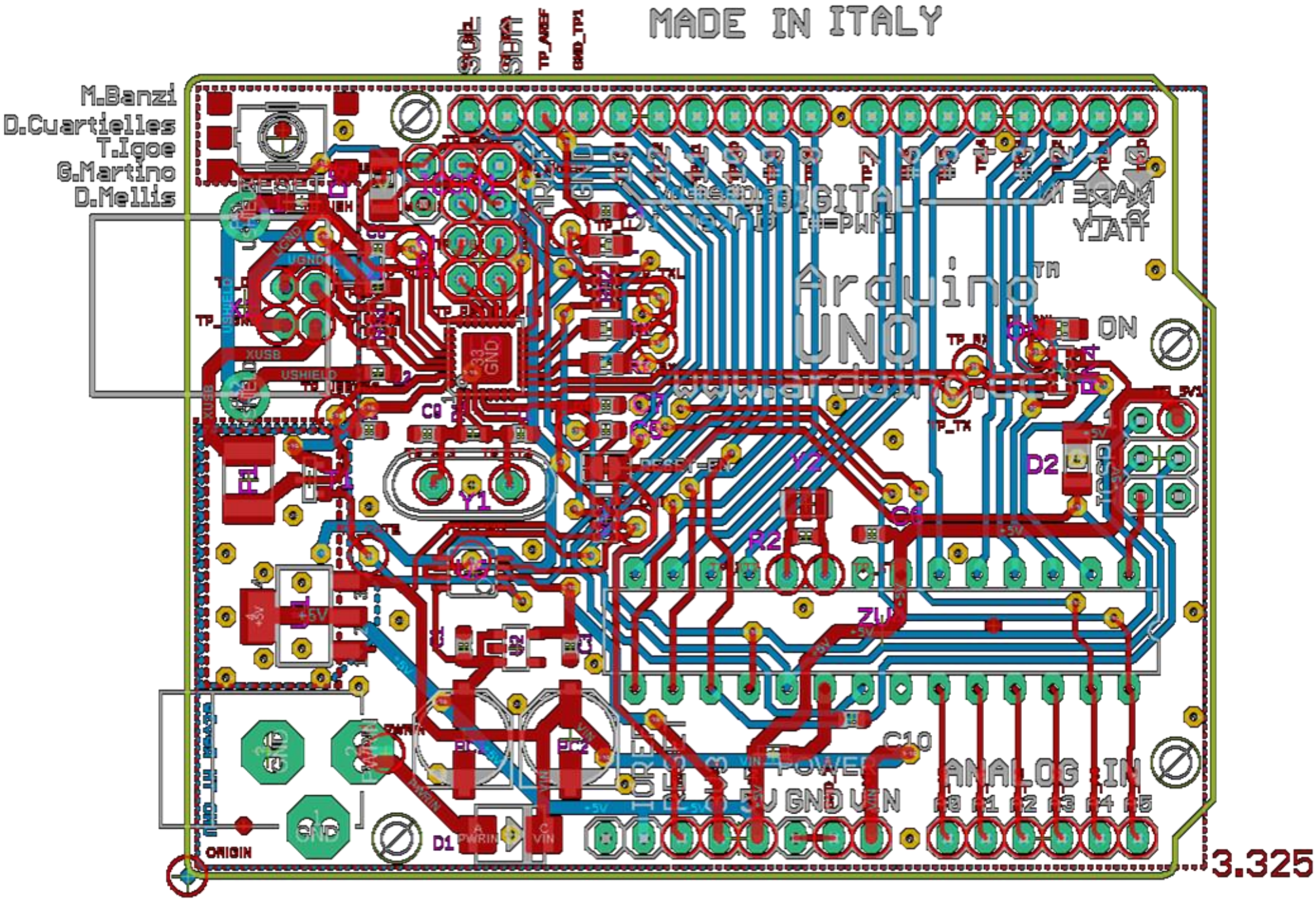
ARDUINO

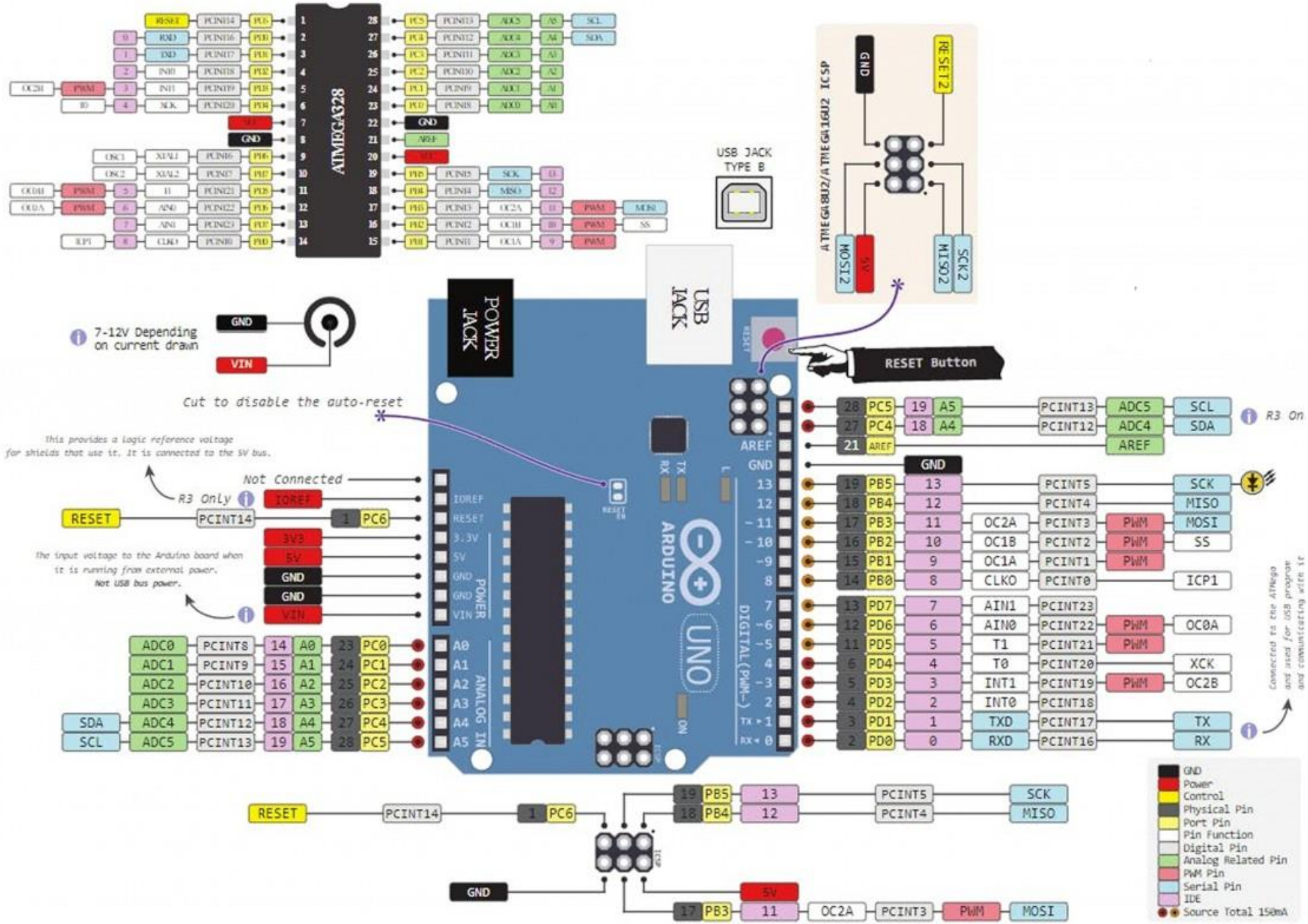
ARDUINO UNO REV3








MADE IN ITALY
M.Banzi
D.Cuartielles
T.Igoe
G.Martino
D.Mellis
SCL
SDA
TP_AREF
GND_TP1
arduino
UNO
www.arduino.cc
DIGITAL (PWM~)
POWER
ANALOG IN
ON
D1
D2
Y1
Y2
P1
P2
C9
C10
ORIGIN
3.325


ATMEGA328
USB JACK TYPE B
ATMEGA8U2/ATMEGA16U2 ICSP
GND
RESET2
MOSI2
5V
MISO2
SCK2
POWER JACK
USB JACK
7-12V Depending on current drawn
GND
VIN
Cut to disable the auto-reset
RESET Button
This provides a logic reference voltage for shields that use it. It is connected to the 5V bus.
Not Connected
R3 Only
IOREF
RESET
PCINT14
PC6
3V3
5V
GND
GND
VIN
The input voltage to the Arduino board when it is running from external power. Not USB bus power.
POWER
ANALOG IN
DIGITAL(PWM~)
ARDUINO
UNO
AREF
GND
R3 On
ADC0 PCINT8 14 A0 23 PC0
ADC1 PCINT9 15 A1 24 PC1
ADC2 PCINT10 16 A2 25 PC2
ADC3 PCINT11 17 A3 26 PC3
SDA ADC4 PCINT12 18 A4 27 PC4
SCL ADC5 PCINT13 19 A5 28 PC5
28 PC5 19 A5 PCINT13 ADC5 SCL
27 PC4 18 A4 PCINT12 ADC4 SDA
21 AREF AREF
19 PB5 13 PCINT5 SCK
18 PB4 12 PCINT4 MISO
17 PB3 11 OC2A PCINT3 PWM MOSI
16 PB2 10 OC1B PCINT2 PWM SS
15 PB1 9 OC1A PCINT1 PWM
14 PB0 8 CLKO PCINT0 ICP1
13 PD7 7 AIN1 PCINT23
12 PD6 6 AIN0 PCINT22 PWM OC0A
11 PD5 5 T1 PCINT21 PWM
6 PD4 4 T0 PCINT20 XCK
5 PD3 3 INT1 PCINT19 PWM OC2B
4 PD2 2 INT0 PCINT18
3 PD1 1 TXD PCINT17 TX
2 PD0 0 RXD PCINT16 RX
Connected to the ATMega USB programmer and communicating with it
RESET PCINT14 1 PC6
19 PB5 13 PCINT5 SCK
18 PB4 12 PCINT4 MISO
GND
5V
17 PB3 11 OC2A PCINT3 PWM MOSI
GND
Power
Control
Physical Pin
Port Pin
Pin Function
Digital Pin
Analog Related Pin
PWM Pin
Serial Pin
IDE
Source Total 150mA