Arduino MEGA2560

Produktkode: 243aa
Tilgjengelighet: 5
Weight: 20.00g

Pris: kr. 80,00

Kort beskrivelse
MEGA2560 R3 Board ATmega2560-16AU CH340G + Free USB Cable for Arduino

Beskrivelse
Disse enhetene er brukte, men fungerer som nye. Selges til redusert pris i utgangspunktet.

Arduino beskrivelse

Overview

This is the new **MEGA2560 R3**. In addition to all the features of the previous board, the MEGA now uses an ATMega16U2 instead of the ATMega8U2 chip. This allows for faster transfer rates and more memory. No drivers needed for Linux or Mac (inf file for Windows is needed and included in the Arduino IDE), and the ability to have the Uno show up as a keyboard, mouse, joystick, etc.

The MEGA2560 R3 also adds **SDA** and **SCL** pins next to the AREF. In addition, there are two new pins placed near the RESET pin. One is the IOREF that allow the shields to adapt to the voltage provided from the board. The other is a not connected and is reserved for future purposes. The MEGA2560 R3 works with all existing shields but can adapt to new shields which use these additional pins.

Revision 3 of the board has the following new features:

1.0 pinout: added **SDA** and **SCL** pins that are near to the AREF pin and two other new pins placed near to the RESET pin, the IOREF that allow the shields to adapt to the voltage provided from the board. In future, shields will be compatible both with the board that use the AVR, which operate with 5V and with the Arduino Due that operate with 3.3V. The second one is a not connected pin, that is reserved for future purposes.
Stronger RESET circuit.

Atmega 16U2 replace the 8U2.

Description

Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 8 KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16 MHz

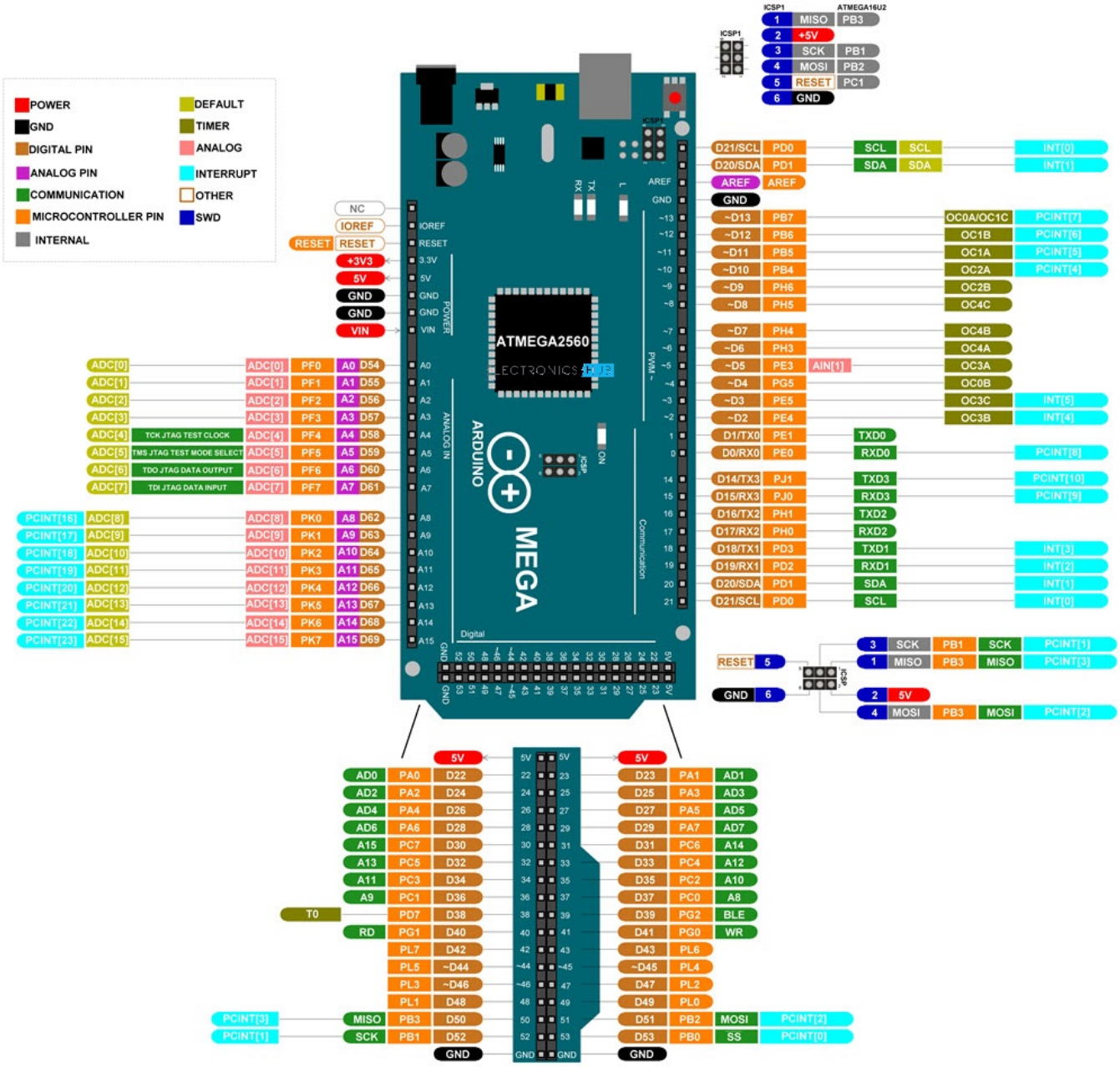
Package List

1X Mega2560 R3 2013 Version For Arduino Compatible

1X USB Cable

Pinout

Lenke


POWER
GND
DIGITAL PIN
ANALOG PIN
COMMUNICATION
MICROCONTROLLER PIN
INTERNAL
DEFAULT
TIMER
ANALOG
INTERRUPT
OTHER
SWD
ATMEGA2560
ARDUINO
MEGA
ICSP1
ATMEGA16U2
MISO PB3
+5V
SCK PB1
MOSI PB2
RESET PC1
GND
NC
IOREF
RESET
3.3V
5V
GND
GND
VIN
POWER
ANALOG IN
PWM ~
Communication
Digital
ON
ICSP
D21/SCL PD0 SCL SCL INT[0]
D20/SDA PD1 SDA SDA INT[1]
AREF AREF
GND
~D13 PB7 OC0A/OC1C PCINT[7]
~D12 PB6 OC1B PCINT[6]
~D11 PB5 OC1A PCINT[5]
~D10 PB4 OC2A PCINT[4]
~D9 PH6 OC2B
~D8 PH5 OC4C
~D7 PH4 OC4B
~D6 PH3 OC4A
~D5 PE3 AIN[1] OC3A
~D4 PG5 OC0B
~D3 PE5 OC3C INT[5]
~D2 PE4 OC3B INT[4]
D1/TX0 PE1 TXD0
D0/RX0 PE0 RXD0 PCINT[8]
D14/TX3 PJ1 TXD3 PCINT[10]
D15/RX3 PJ0 RXD3 PCINT[9]
D16/TX2 PH1 TXD2
D17/RX2 PH0 RXD2
D18/TX1 PD3 TXD1 INT[3]
D19/RX1 PD2 RXD1 INT[2]
D20/SDA PD1 SDA INT[1]
D21/SCL PD0 SCL INT[0]
ADC[0] ADC[0] PF0 A0 D54
ADC[1] ADC[1] PF1 A1 D55
ADC[2] ADC[2] PF2 A2 D56
ADC[3] ADC[3] PF3 A3 D57
ADC[4] TCK JTAG TEST CLOCK ADC[4] PF4 A4 D58
ADC[5] TMS JTAG TEST MODE SELECT ADC[5] PF5 A5 D59
ADC[6] TDO JTAG DATA OUTPUT ADC[6] PF6 A6 D60
ADC[7] TDI JTAG DATA INPUT ADC[7] PF7 A7 D61
PCINT[16] ADC[8] ADC[8] PK0 A8 D62
PCINT[17] ADC[9] ADC[9] PK1 A9 D63
PCINT[18] ADC[10] ADC[10] PK2 A10 D64
PCINT[19] ADC[11] ADC[11] PK3 A11 D65
PCINT[20] ADC[12] ADC[12] PK4 A12 D66
PCINT[21] ADC[13] ADC[13] PK5 A13 D67
PCINT[22] ADC[14] ADC[14] PK6 A14 D68
PCINT[23] ADC[15] ADC[15] PK7 A15 D69
RESET 5
GND 6
3 SCK PB1 SCK PCINT[1]
1 MISO PB3 MISO PCINT[3]
2 5V
4 MOSI PB3 MOSI PCINT[2]
5V AD0 PA0 D22 AD2 PA2 D24 AD4 PA4 D26 AD6 PA6 D28 A15 PC7 D30 A13 PC5 D32 A11 PC3 D34 A9 PC1 D36 T0 PD7 D38 RD PG1 D40 PL7 D42 PL5 ~D44 PL3 ~D46 PL1 D48 PCINT[3] MISO PB3 D50 PCINT[1] SCK PB1 D52 GND
5V D23 PA1 AD1 D25 PA3 AD3 D27 PA5 AD5 D29 PA7 AD7 D31 PC6 A14 D33 PC4 A12 D35 PC2 A10 D37 PC0 A8 D39 PG2 BLE D41 PG0 WR D43 PL6 ~D45 PL4 D47 PL2 D49 PL0 D51 PB2 MOSI PCINT[2] D53 PB0 SS PCINT[0] GND