

Home > UNO PLUS











DESCRIPTION

Compatible with Arduino UNO R3, Onboard MCU ATMEGA328P-AU

Overview

UNO PLUS is a development board compatible with the Arduino UNO R3, an improved & enhanced alternative solution for Arduino UNO R3.

Advantages

	UNO PLUS	UNO R3	Remarks
Operating voltage	5V/3.3V	5V	Dual voltage level to support more shields
Reset	Lateral	Vertical	Lateral button is easier to use when connecting with shield
Bootloader switch	Yes	None	The board can be configured to run program immediately when power-up by the switch
USB connector	Micro USB	USB Type B	Micro connector is more commonly used, and shields won't be blocked anymore while connecting
DC jack	Low profile	Normal height	Shields won't be blocked anymore while connecting
Power output header	Yes	None	Providing 5V/3.3V power output OR common-grounding with other boards
3.3V power output	800mA Max	150mA Max	UNO PLUS features higher driving capability
Oscillator	Crystal oscillator	Ceramic resonator	Crystal oscillator is suit for applications where accurate clock reference is required
ADC channel	8	6	CFG used as ADC6 by configuration, and ADC7 from the Reserved PIN
Connecting with prototype breadboard	Supported	Not supported	Solder pads is provided for DIY interfaces to connecting with prototype breadboard
USB driver	Compatible with all main systems	Doesn't compatible with WIN7/WIN8 Express Edition	Driver will never failed to install thanks to the onboard FT232

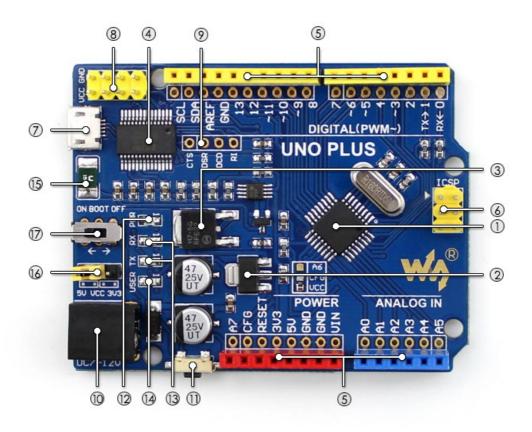
Firmware can be fixed by using the onboard FT232, no
extra programmer is needed

Firmware fixing

Supported

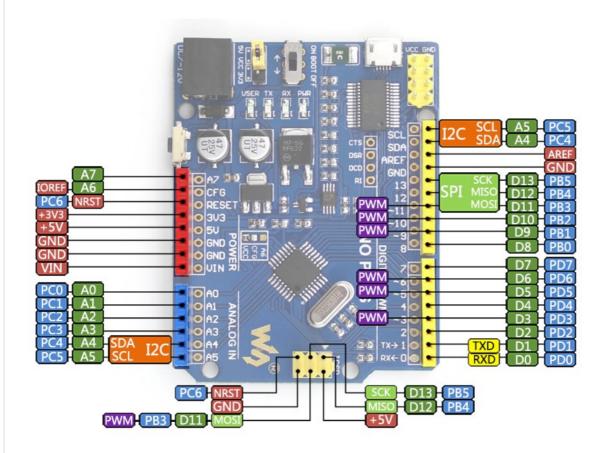
Not supported

What's on the UNO PLUS

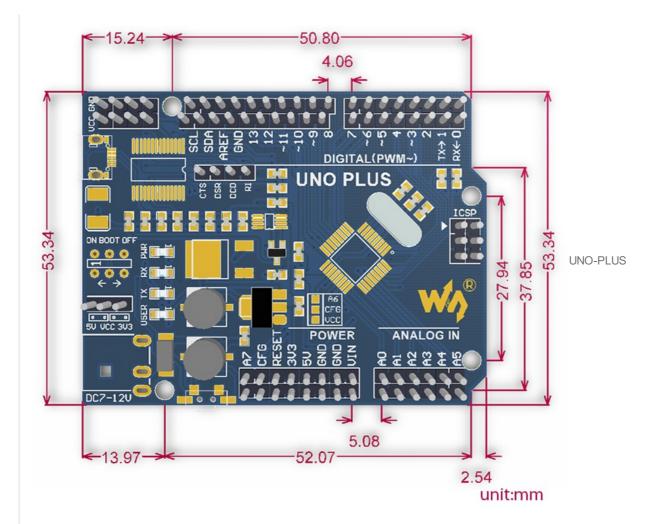


- 1. ATMEGA328P-AU
- 2. AMS1117-3.3: 3.3V voltage regulator
- 3. NCP1117ST50T3G: 5V voltage regulator
- 4. FT232RL: USB to UART convertor
- 5. Arduino interface
 - compatible with standard Arduino interface with two additional analog inputs A6 (config the CFG), A7
 - solder pads provided, supports prototype breadboard
- 6. ICSP interface
- 7. MICRO USB connector: for uploading program OR serial port debugging
- 8. Power output header: 3.3V OR 5V, voltage level configured by the onboard power configuration switch, used as power output OR common-grounding with other boards
- 9. FT232 pins: for burning Bootloader into the microcontroller
- 10. DC input: 7V ~ 12V
- 11. Reset button
- 12. Power indicator
- 13. Serial port Rx/Tx indicator
- 14. User LED
- 15. Power configuration switch: for configuring the operating voltage
- 16. Bootloader selection switch
 - turn ON: the board will reset when power-up OR other USB devices were detected connecting to the PC
 - turn OFF: the onboard program runs immediately when power-up, and the board will not reset when other USB devices were detected connecting to the PC

UNO PLUS Expansion Headers



UNO PLUS Dimension



Downloads

Development resources: demo codes, schematic, datasheets, etc.

www.waveshare.com/wiki/UNO_PLUS