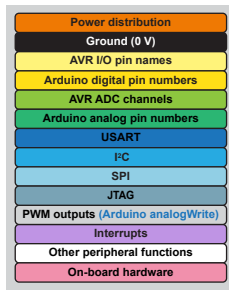
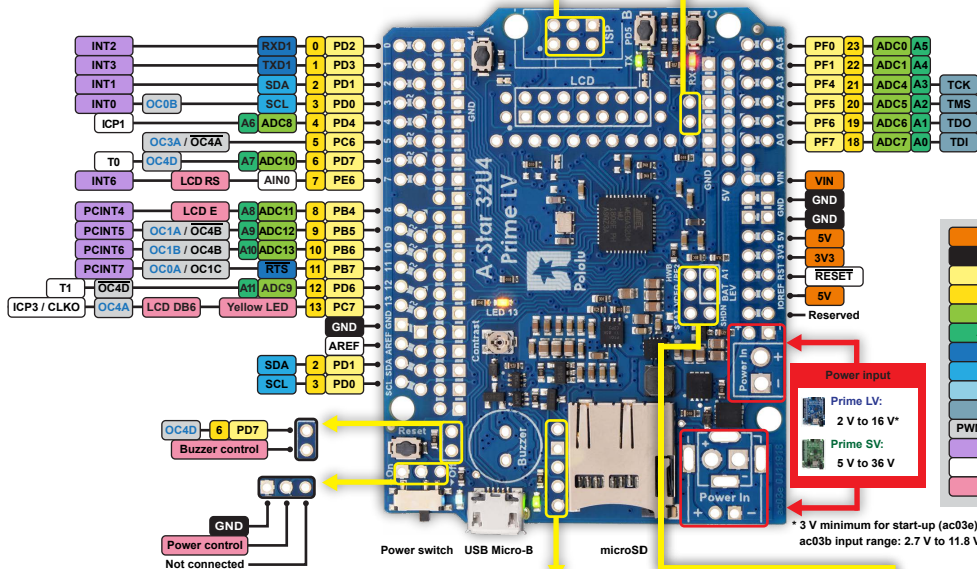


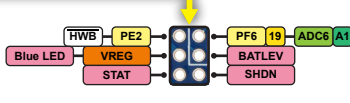
The diagram illustrates the pin connections for the ESP8266 module. It shows the following connections:

- PCINT2** is connected to **microSD DI**.
- microSD DI** is connected to **PB2** (pin 16).
- PB2** is connected to **MOSI / PDI**.
- MOSI / PDI** is connected to the **ISP** pin.
- ISP** is connected to **5V** and **GND**.
- 5V** is connected to the **5V** pin.
- GND** is connected to the **GND** pin.
- RESET** is connected to the **RESET** pin.
- PCINT3** is connected to **Button A**.
- Button A** is connected to **LCD DB4**.
- LCD DB4** is connected to **microSD DO**.
- microSD DO** is connected to **PB3** (pin 14).
- PB3** is connected to **MISO / PDO**.
- MISO / PDO** is connected to the **ISP** pin.
- PCINT1** is connected to **microSD SCLK**.
- microSD SCLK** is connected to **PB1** (pin 15).
- PB1** is connected to **SCK**.
- SCK** is connected to the **ISP** pin.

A yellow arrow points to the **ISP** pin, indicating it is the target of the connection.

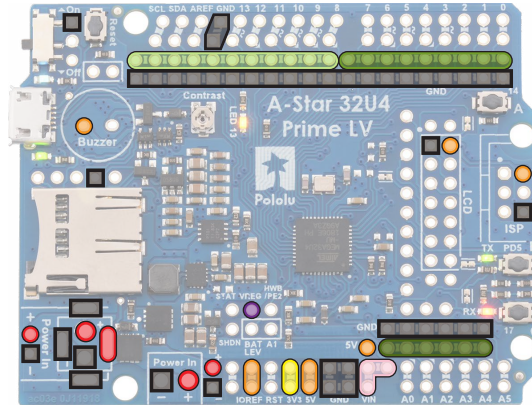


* 3 V minimum for start-up (ac03e);
ac03b input range: 2.7 V to 11.8 V



A-Star 32U4 Prime

Power distribution



Ground (0 V)
Power Input
VIN (after switch)
5V (VCC access)
3V3 (3.3 V regulator output)
VREG (5 V regulator output)
Optional power bus 1
Optional power bus 2
Optional power bus 3

Power Input
 A-Star 32U4 Prime LV: 2 V to 16 V*
 A-Star 32U4 Prime SV: 5 V to 36 V

* 3 V minimum for start-up (ac03e);
ac03b input range: 2.7 V to 11.8 V