USB A – not the peripheral device

USB B – use for larger devices

USB C – becoming the standard

Micro USB – being deprecated bu USB C, but much better for soldering by hand

Mini USB – obsolete/deprecated

Voltage Regulator

* It takes an input voltage and produces a stable output voltage

Linear Voltage Regulator

* 2 external components (bypass capacitors)
* Cleaner output relative to switching regulators
  + LDO – low dropout regulator small difference between Vout and Vin.
  + Non-LDO – need +2V higher than their Vin

Switching Regulators

* Relatively noisy
* Need a lot of external components
* More power efficient than linear regulators

LiPo

* Nominal voltage of 3.7 V
* Voltage range 4.2V – 3V
* Regulated down to 3.3V