Power management system

- USB/Battery/VDD Power Supply Auto Switch System
  - USB maximum input voltage: 7V
  - Battery input voltage: 3.5~4.2V
  - VDD input: 3~3.5V (Recommend 3.3V)

Charging management system

Solar Panel

USB(Vin) Charge input Voltage: 4.2~7V (=80mA)
Solar Panel input: 5.5~7V

LiPo Battery

OLED

MCU & LoRa

USB/VPD Power Supply Auto Switch System

- Battery maximum input voltage: 7V
- VDD input voltage: 3.5~4.2V
- VDD input: 3~3.5V (Recommend 3.3V)

Battery

Solar Panel

Heltec Automation

https://heltec.org/project/htcc-ab02s

CubeCell HTCC-AB02S Block Diagram

Header

Auto Boot

- STR = 1, RTS = 0: System Hanging
- RTS = 0 ~ 1: Run firmware code in FLASH
- STR = 0 ~ RTS = 0 ~ RTS = 1 ~ DTR = 1: Access Boot Loader mode

HeliBox Automation

https://helib.org

https://helib.org/projects/helbox-ab02s