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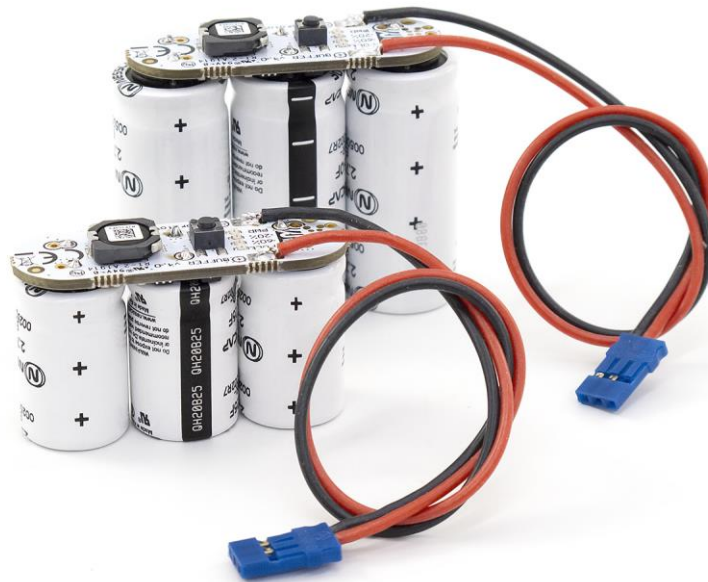
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# OWNERS MANUAL

V4p8, 3.7.2017 (MP)



## Version V4

### Feature Overview:

- 32 bit, 48MHz MCU controlled operation
- Adaptive charging
- Current sensing
- Output for external Alarm\*

### Operation Range:

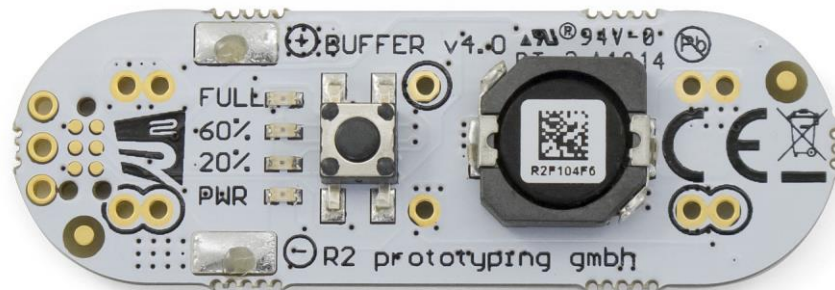
- Backup Battery for electric Helicopters for safe emergency landing
- Buffer surge currents on high power model airplanes and helicopters
- Effective buffering of servo reverse current
- Automatic setup\*\*

### Maximum Ratings:

- Maximum Voltage (INPUT) 10V
- Maximum buffer Voltage (OUTPUT at full charge) 8.5V
- Surge current 25 Amp

\* option in future software releases

\*\* all parameters set automatically except cut-off voltage which is preset for 3.4 Volt. If your system requires a different cut-off voltage please contact support



## CONNECTIONS, LEDs and BUTTON:

AUX:	3-pin solder port for auxiliary connections*
BUTTON:	shutdown system after use
FULL:	(green) indicate full charge
60%:	(green) indicate 60%-80% charge
20%:	(yellow) indicate charging active (blinking) or 20%-60% charge (solid)
PWR:	(red) indicate system standby (solid) or setup (blinking after startup) or buffer active (blinking during normal operation)

## OPERATION:

- 1) Connection: Install buffer to a free port on your FBL or Receiver
- 2) Power on your Model
- 3) The buffer unit detects operating conditions automatically (red LED is flashing)
- 4) Charging will start when setup is complete (yellow LED is flashing)
- 5) Green LEDs indicate charging state
- 6) When charging is complete, yellow LED is constant on
- 7) When system is supplying current (buffering surges, servo reverse current or emergency supply) red LED is flashing
- 8) After flight, first power down model
- 9) Press button to shut down system

\* option in future software releases