ElectroCraze UBEC 3A

Compact Switch-Mode Voltage Regulator

Precision power for RC Vehicles, Drones, Robotics & FPV Systems

PRODUCT OVERVIEW



The **ElectroCraze UBEC 3A** is a high-efficiency switch-mode BEC (Battery Elimination Circuit) designed for RC and robotics applications. It converts 2S–8S LiPo battery voltage into a stable **5V or 7.4V** output, safely powering receivers, servos, flight controllers and FPV equipment. With **3A continuous** output, it is an ideal drop-in for OPTO ESC setups that do not supply receiver power.

SPECIFICATIONS

Model	ElectroCraze UBEC 3A
Input Voltage	5V – 28V (2S to 8S LiPo)
Output Voltage	5V (default) / 7.4V (selectable via PCB pad)
Output Current	Continuous 3A
Dimensions	17 × 12 × 6 mm
Weight	21 g
LED Indicator	Green — Power ON

KEY FEATURES

[DC] Efficient DC-DC Regulation
High conversion efficiency via switch-mode design

[OC] Overcurrent Protection
Guards against excessive currents automatically

[SC] Short-Circuit Protection
Ensures safety for all downstream devices

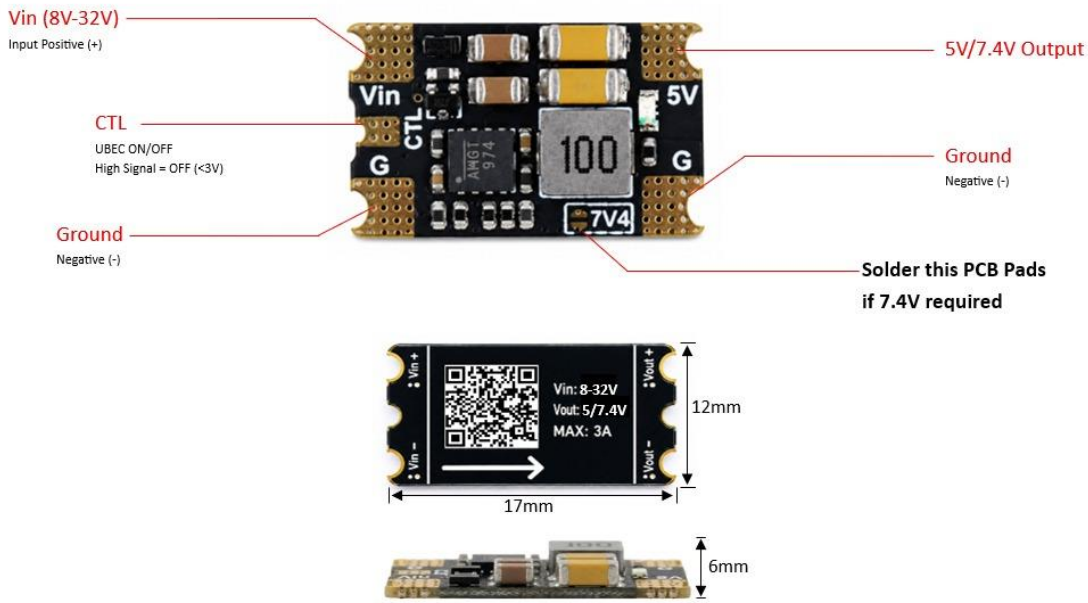
[TH] Overheat Protection
Thermal shutdown before component damage occurs

[AV] Adjustable Output Voltage
Select 5.0V or 7.4V by soldering PCB pads

UBEC ON / OFF CONTROL (CTL PAD)

CTL Signal	UBEC Status
0V or not connected	**ON ✓**
3V – 28V applied	**OFF ✗**

WIRING SUMMARY



INPUT (5V – 28V)	OUTPUT (Selectable)	CTL (ON/OFF)
Vin → Positive (+)	5V or 7.4V → (+)	Open / 0V → ON
G → Negative (−)	G → Ground (−)	3V–28V → OFF

Voltage Selection: Default output is 5V. Solder the 7.4V PCB pad to switch to 7.4V output.

APPLICATIONS

RC Airplanes	Drones & Multirotor	RC Helicopters
Robotic System	FPV Equipment	Flight Controllers & Receivers

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