

## Zikostep 1 Stepper Motor controller - Technical Datasheet (REV-A)



**Product Definition:** A high quality, easy to use stepper motor controller designed and manufactured in United Kingdom. Capable of fitting on top of a stepper motor, with dedicated software to operate the controller via laptop or a PC.

### Key Features:

- UART Connectivity
- Dedicated Software
- Full Step to 256 Microsteps
- Programmable Output Pin
- Controllable via step input
- Analogue speed and direction control
- Easy to operate
- Clean and compact design
- Casing Included
- Fits on top of a stepper motor

## Technical Specifications:

Parameter	Value
Operating Voltage	5 to 24VDC
Maximum Phase Current	Up to 2 Amps **
Microstep Resolution	1, ½, ¼, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256
Operating Temperature	-20C to 60C
Weight – Without Casing (g)	15
Weight – With Casing (g)	50
Casing Included	Yes (Uncased available)
Casing Materials	Anodised Aluminium
UL Rating	UL94 (V0)
ROHS Compliant	Yes
REACH Compliant	Yes
Country of Origin	UK
Max NEMA Size	NEMA 23 (subject to being within tolerance)
Overtemperature protection	Yes
Cable diameter for connector	1.5 sq. mm
Header Pin Pitch	2.54 mm
3-way and 6-way connectors pitch	1.27 mm

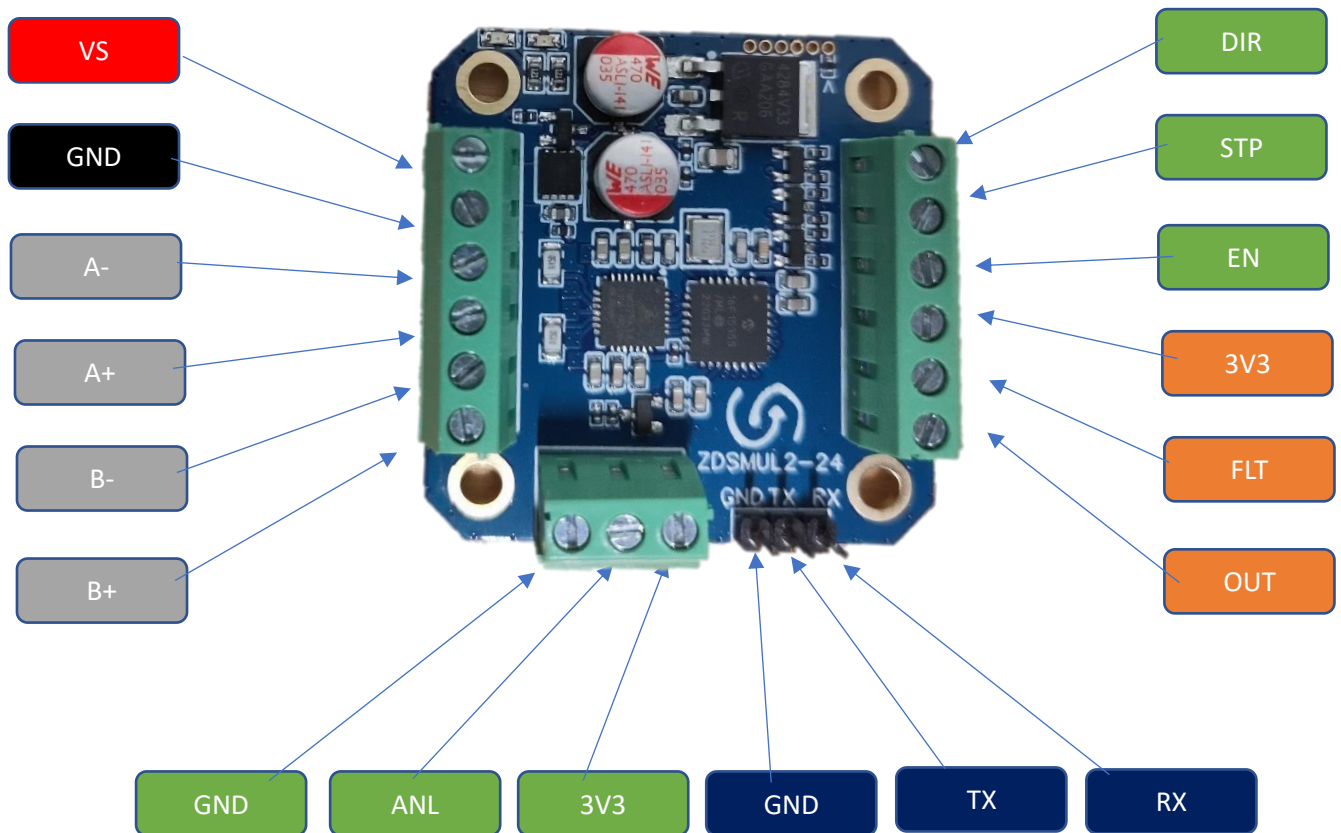
**\*\* NOTE:** Under certain operating conditions (for example high current, low speed at a relatively high ambient temperature and 100% duty cycle), the controller will get hot. Care must be taken to ensure the unit is adequately heatsinked and cooled in such circumstances. If you have a specific requirement or application where this may be relevant, then please contact our team to discuss suitability and we will be happy to advise.

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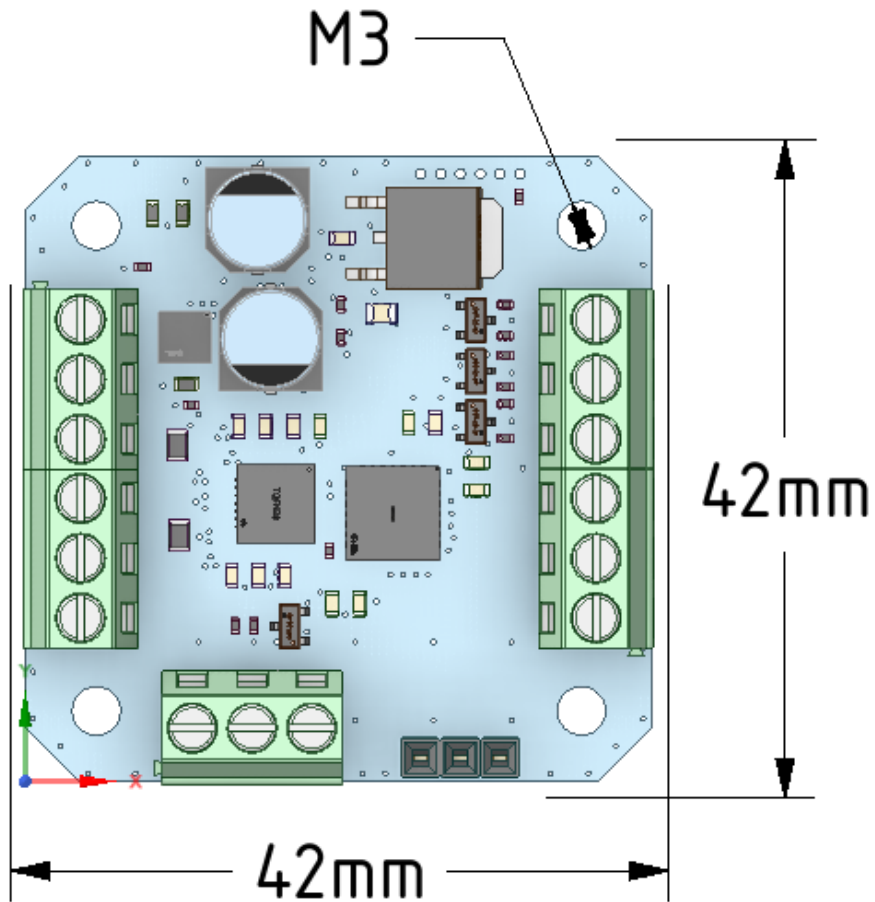
+44 (0) 1422 647177

## Connections on the Zikostep 1:

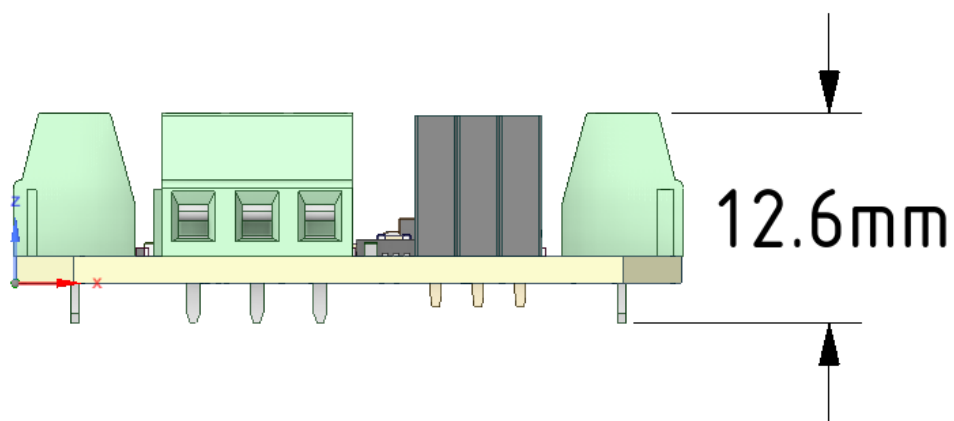


Terminals		Terminals	
Vs	Power Connections	GND	Analogue Speed Input
GND		ANL	
A-	Motor Connections	3V3	Direction Input
A+		DIR	Step Input
B-		STP	Enable Input
B+		EN	3.3V Output Rail
GND	UART Connections	3V3	Fault Output
Tx		FLT	Programmable Output
Rx		OUT	

**Product Dimensions:**



*Figure 1: Top View (Without Casing)*



*Figure 2: Front View (Without Casing)*

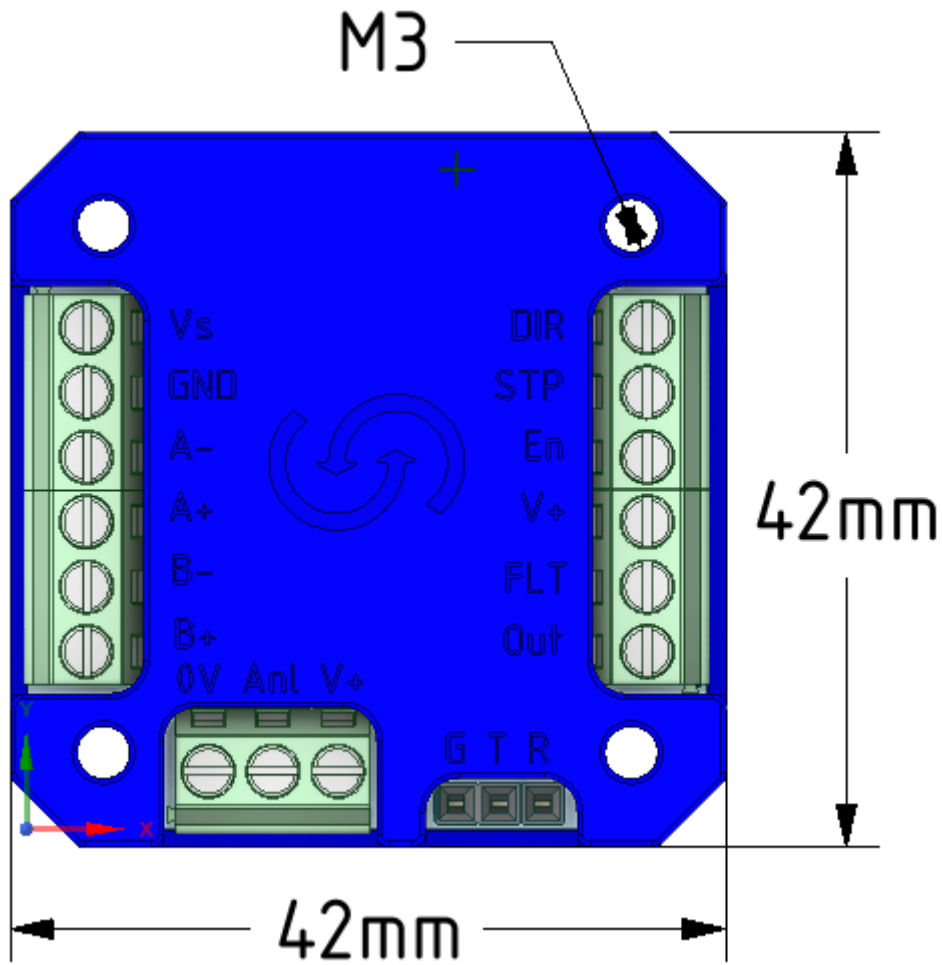


Figure 3: Top View (With Casing)

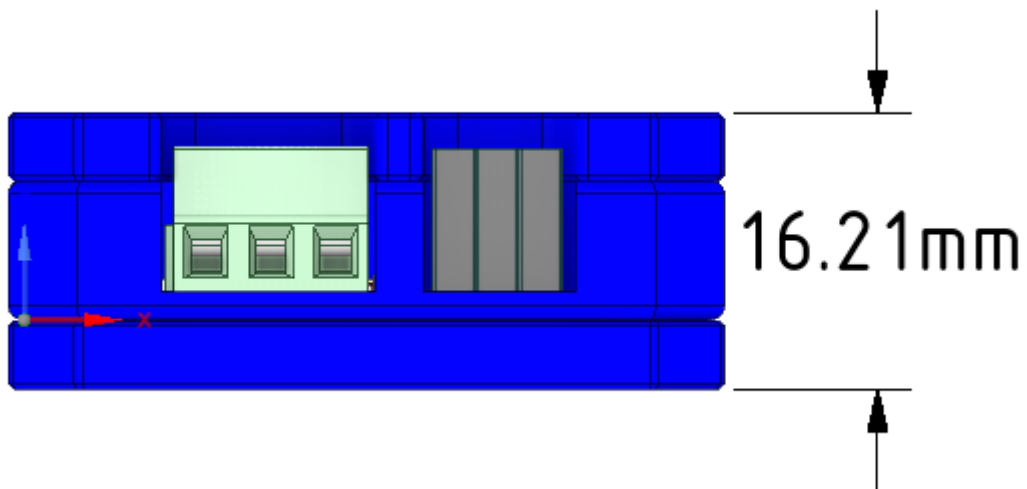


Figure 4: Front View (With Casing)