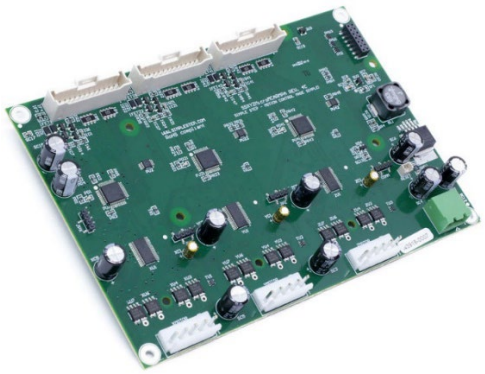
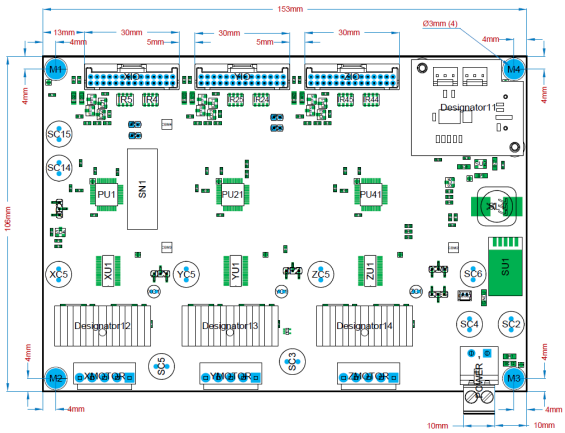
Triple Axis Microstepping Controller (SSXYZMicroMC-6x)

(Medium Current)



Communication board not Included

Dimensions:



6.04" x 4.18" x 0.8"

153.416mm x 106.172mm x 20.00mm

Specifications

	Minimum	Maximum
RoHS Compliant	Yes	
Total Motor Axis/Board:	3	
Motor Driver Type (per axis):	Bipolar Stepper Driver	
Motor Driver Stepping Range (per axis):	Full, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256	
Motor Stepping Speeds (per axis):	1 sps	5,999,633 sps
Motor Idle Power Modes (per axis):	OFF to Maximum Power Setting	
Maximum Current Control Setting (per axis):	Software Controlled Single 8 bit DAC	
Driver Phase Short Circuit Protection:	Yes	
Driver Thermal Shutdown Protection:	Yes	
Driver Junction Temperature (Thermal Shutdown):	-	+165 degrees C (+329 degrees F)
Motor Current Limits (per axis) **Running:** **Idle:**	 0.100 amps/phase 0.00 amps/phase	 4.00 amps/phase To maximum setting
Operating Voltages:	8.0VDC	50.0VDC
Ambient Temperature Range **Operating:** **Storage:**	 0 degrees C (32 degrees F) -40 degrees C (-40 degrees F)	 +70 degrees C (158 degrees F) +125 degrees C (257 degrees F)
Maximum Controller Boards on One (1) Serial Line	16 (up to 255 if 2-digit address is used)	
Communications:	Communications boards sold separately	
Communication Baud rates:	9600, 19200, 38400, 57600 (**default**), 115200, 230400, 460800	
Home Sensor Input (per axis):	Infrared (Current Limited to 25ma) Sensor Input or direct drive 5VDC	
Limit Sensor Input (per axis):	Microswitch type Input (Normally Open)	
Dedicated User Input Lines (per axis):	3-Inputs with on board 10K pull-ups, 0-5.0VDC Input, 0-3.3VDC Output 3-Inputs with no pull-ups, 0-3.3VDC Input/Output	
Dedicated User Output Lines (per axis): **Outputs (each):**	2 – Open collector MOSFET 0.5 amp - 0VDC to Board operating voltage with diode clamp	
PWM Outputs (per axis):	2 - Open Collector MOSFET and 5 - TTL 0 to 3.3VDC PWM's	
ADC Inputs (per axis):	1 - (SPARE 1) 0 to 3.3VDC, 12-bit ADC	
Quadrature Encoder Interface (per axis):	Yes (Single ended only)	
Quadrature Encoder Maximum Frequency (per axis):	1.5MHz	
Quadrature Encoder Modes (per axis):	x1, x2 and x4	
Quadrature Encoder scaling (per axis):	Double Precision Floating Point	

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The specifications in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of any Simple Step® product for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.
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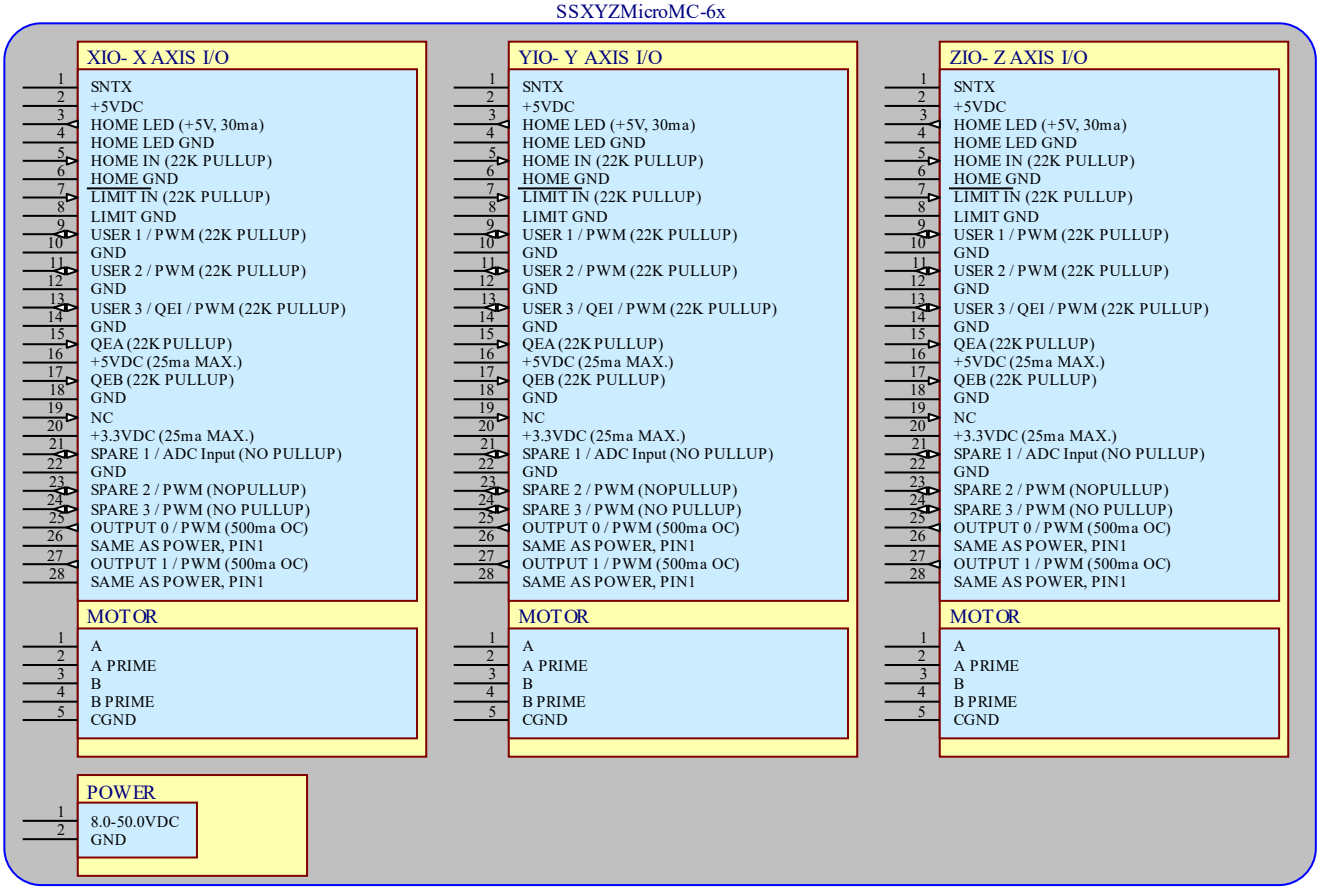

Connector Name	Connector Type	Mating Connector P/N
POWER	Phoenix Contact	1754449
XIO, YIO, ZIO	Molex iGrid	501646-2800
XMOTOR,YMOTOR, ZMOTOR	JST Sales	VHR-5N

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