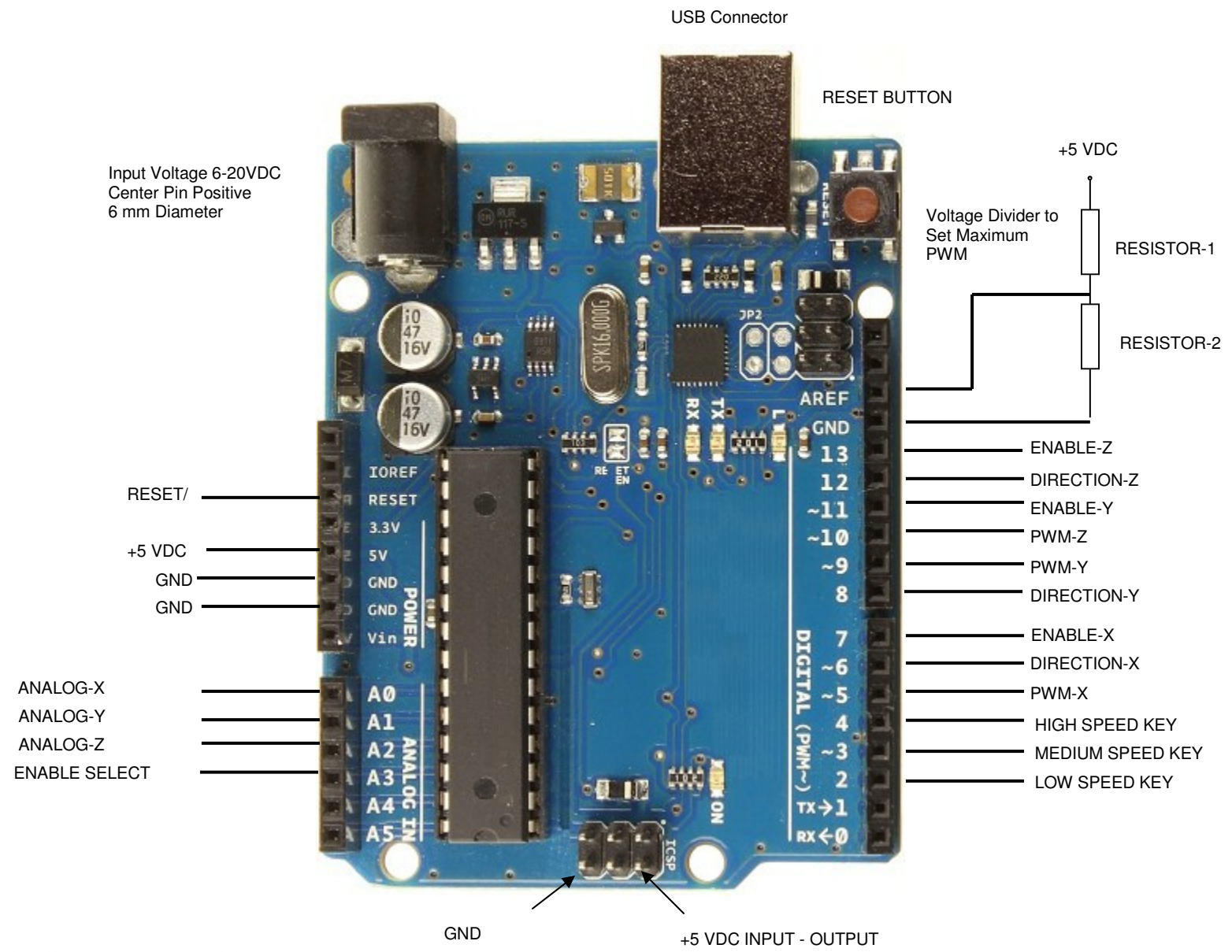


GLORY-03
Three-axis Analog Signal Controlled DC Motor Controller Card



Optimal Engineering Systems, Inc.
 6901 Woodley Avenue
 Van Nuys, California 91406 U.S.A.
 www.oesincorp.com

Phone (888) 777-1826
 +1 (818) 222-9200
 FAX +1 (818) 436-0446
 E-mail oes@oesincorp.com

GLORY-03
Three-axis Analog Signal Controlled DC Motor Controller Card

X-Axis Motor Driver Connection

PIN	NAME	DESCRIPTION
D6	PWM-X	PWM Signal Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D5	DIR-X	Direction Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D7	ENA-X	Enable Output, CMOS level signals, 20 mA sink and source capability, +5 VDC

Y-Axis Motor Driver Connection

PIN	NAME	DESCRIPTION
D9	PWM-Y	PWM Signal Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D8	DIR-Y	Direction Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D10	ENA-Y	Enable Output, CMOS level signals, 20 mA sink and source capability, +5 VDC

Z-Axis Motor Driver Connection

PIN	NAME	DESCRIPTION
D11	PWM-Z	PWM Signal Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D12	DIR-Z	Direction Output CMOS level signals, 20 mA sink and source capability, +5 VDC
D13	ENA-Z	Enable Output, CMOS level signals, 20 mA sink and source capability, +5 VDC



Optimal Engineering Systems, Inc.
6901 Woodley Avenue
Van Nuys, California 91406 U.S.A.
www.oesincorp.com

Phone (888) 777-1826
+1 (818) 222-9200
FAX +1 (818) 436-0446
E-mail oes@oesincorp.com

GLORY-03
Three-axis Analog Signal Controlled DC Motor Controller Card

PIN	NAME	DESCRIPTION
A0	ANALOG-X	Analog-X Input
A1	ANALOG-Y	Analog-Y Input
A2	ANALOG-Z	Analog-Z Input
D4	HIGH-SPEED	High Speed Selection Input*
D3	MEDIUM-SPEED	Medium Speed Selection Input*
D2	LOW-SPEED	Low Speed Selection Input*
A3	ENABLE SELECT	Enable Select*

Place a normally open switch between this pin and ground.

Apply a voltage equal to $2.5 \pm \nu_1$ to ANALOG-X. The speed of the X-motor is equal to $\pm K * \nu_1$ where K is selected by pressing HIGH-SPEED, MEDIUM-SPEED or LOW-SPEED buttons.

Apply a voltage equal to $2.5 \pm \nu_2$ to ANALOG-Y. The speed of the Y-motor is equal to $\pm K * \nu_2$ where K is selected by pressing HIGH-SPEED, MEDIUM-SPEED or LOW-SPEED buttons.

Apply a voltage equal to $2.5 \pm \nu_3$ to ANALOG-Z. The speed of the Z-motor is equal to $\pm K * \nu_3$ where K is selected by pressing HIGH-SPEED, MEDIUM-SPEED or LOW-SPEED buttons.

HIGH-SPEED is the default state.

Press the HIGH-SPEED button while button the ENABLE SELECT button is pressed to toggle the X-axis enable signal.

Press the MEDIUM-SPEED button while button the ENABLE SELECT button is pressed to toggle the Y-axis enable signal.

Press the LOW-SPEED button while button the ENABLE SELECT button is pressed to toggle the Z-axis enable signal.

$(\text{Resistor-1}) / (\text{Resistor-1} + \text{Resistor-2}) = (\text{Maximum Value of } \nu) / 5.$



Optimal Engineering Systems, Inc.
6901 Woodley Avenue
Van Nuys, California 91406 U.S.A.
www.oesincorp.com

Phone (888) 777-1826
+1 (818) 222-9200
FAX +1 (818) 436-0446
E-mail oes@oesincorp.com