PPMP #: 118-5-751-2021-5-0-2



Republic of the Philippines VISAYAS STATE UNIVERSITY

Visca, Baybay City, Leyte

PURCHASE REQUEST

Dept./Office: DABE

PR #: GF-2021-10-01391

Date: 10-21-2021

Section/End-User: Lorbert G. Mazo

Category: Electronics supplies

Funding Source: General Fund - MOOE

Project Title/Code: VSU-IP-2021-4

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	DC & Stepper Motor HAT	set	1	2,000.00		2,000.00

Specification:

- 4 H-Bridges: TB6612 chipset provides 1.2A per bridge with thermal shutdown protection.
- Can run motors on 4.5VDC to 13.5VDC.
- Up to 4 bi-directional DC motors with individual 8-bit speed selection
- Up to 2 stepper motors (unipolar or bipolar) with single coil, double coil, interleaved or micro-stepping.
- · Big terminal block connectors to easily hook up wires (18-26AWG) and power
- · Polarity protected 2-pin terminal block and jumper to connect external 5-12VDC power
- · for Raspberry Pi Mini Kit

Digital Load Cell Sensor Weigh Scale Kit Assembly	ing set	5	480.00		2,400.00
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Specification:

- HX711 module uses 24 high precision A/D converter chip hx711;
- Sturdy aluminum alloy construction with strain gauges pre-attached with strain relieved wires.
- Accurately measures forces from 0-5kg (0-11 lb). On-chip active low noise PGA with selectable gain of 32, 64 and 128. -
- On-chip power supply regulator for load-cell and ADC analog power supply, on-chip oscillator requiring no external component with optional external crystal.
- · Simple digital control and serial interface: pin-driven controls, no programming needed, selectable 10SPS or 80SPS output data rate.

3	Heat Shrink Tube Tubing Sleeve Wrap Wire Cable	set	1	360.00	360.00
	Specification:				
	 100Pcs/Set 				
	 7 Color Polyolefin Material 				
4	Hex Nut Spacing Screw Male Female Threaded Pillar	set	1	400.00	400.00
4		set	1	400.00	4

- 200Pcs/Set M3
- · for PCB PC Motherboard
- Nickel Plated

5	High Torque Bipolar Stepper Motor	set	2	1,200.00	•	2,400.00

Specification: · Motor Type: Bipolar Stepper • Step Angle: 1.8 deg. • Holding Torque: 65Ncm(92oz.in) · Rated Current/phase: 2.1A · Phase Resistance: 1.6ohms • Inductance: 3mH+/-20%(1KHz) · Number of Leads: 4 Male+Female Plug Connector 460.00 460.00 Power Supply Jack Adapter For set 1 **CCTV Camera** Specification: Female Jack Description: No electrical tap, No splicing, no crimping, but only a small screw driver. Male Jack Description: 2.1 x 5.5mm CCTV Camera DC Power Plug Connector. DC Power Plug with plastic construction and strain relief. This 2.1 x 5.5mm Power Plug features one power connector end DC plug male to another end terminal for CCTV camera connected. 180.00 180.00 1 Mini voltage regulator set Specification: High voltage and high current resettable fuse, overcurrent automatic disconnection, power off for cooling for a few seconds fuses automatic recovery Operating voltage: DC3V-35V · Control power: Maximum 90W Quiescent current: 0.01A(Standby) PWM duty cycle: 1%-100% PWM frequency: 10khz 900.00 1,800.00 set 2 Mux Breakout - 8 Channel 8 Specification: Operating Voltage: 1.65V - 5.5V Operating Temperature: -40 - 85° C I2C Address: 0x70 (default) up to 0x77 10x Qwiic Connectors o 2x Pass Through (Daisy Chain) o 8x Channels Parallel Beam Electronic Load Cell 2,950.00 590.00 5 set **Scale Weighting Sensor** Specification:

• Use temperature: - 10? to +40?

Output impedance: 405±6
Input impedance: 350±6

Theoretical accuracy range: 100g
Accuracy: 0.020%, 0.010%
Comprehensive error: ±0.03%F.S

· Limit range: 0-100g

Non-linearity: 0.02%.SHysteresis: 0.02% F.S				
Hysteresis: 0.02% F.S				
Installation type: parallel installa	ition			
 Sensitivity: 2.0±0.2mv/v 				
Potentiometer Variable Resistor 25 Turn	set	1	375.00	375.00
Specification:				
• 25pcs/set				
2K Ohm Trim Pot Trimmer				
Sauna Heater Stove Heating Element	set	2	3,450.00	6,900.00
Specification:				
A Material 2014 Ottobale Charles				CHARLES OF STREET
Material: 304 Stainless Steel				
• Power: 2670W				
• Voltage: 220V/380V				
Sauna type: Wet or Dry				
Soldering Iron Kit set with carrying bag	set	1	1,200.00	1,200.00
Specification:				
 Work Voltage: 220V 				
Power: 60W				
 Temp Rang: 200? - 450 ? 				
 Tweezers: ESD-15, Length 4. 	7inches			
 Soldering Iron Stand: Steel 				
 Tips Model: 5 pcs, 900M serie 				
 Desoldering Pump: Plastic an 	d aluminum	alloy		
 Carrying bag: Fabric 				
 The working temperature is common temperature. 	ontinuously	adjustable bet	ween 200~450?.	
	set	5	270.00	1,350.00
Called State Polavis	001			
Solid State Relays				
Specification:				
Specification:				
Specification: • Input Voltage : 3-32V DC				
• Input Voltage : 3-32V DC • Output Voltage : 24-380V AC				
Specification: Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 40A				
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Specification: Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 40A Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 60A		1	1,950.00	1,950.0

,	Silicone Wire Rubber Insulated	Electrical V	Vire Hook-up	Wire		
15 Wire	Connector	set	1	1,935.00	1,935.00	
Spec	• 95 PCS/set• Mini Quick Connector Universa	I Compact	Ferminal Bloc	k Plug-in Electrical Wire		
	TOTAL			a complete	26,660.00	
Purpose	for research					
Checked	DIONESIO 1. ESTI	ир _д Y B. REGIS	Funds Available:	CIAM. FLORES W		
	TWG - Electronics su	upplies	HEAD	HEAD, BUDGET OFFICE		
Requested by: Signature: Printed Name: LORBERT G. MAZO			EL LESLIE S. TAN	Approved by: EDGARDO E. TULIN		
Designation: END USER LINIT HEAD I				AD PROJECT LEADER	PRESIDENT VSII 101)	