ELECTRONICS STORE AND SERVICES

0966-239-4341

DATE 19 August 2022

Engr. Christian B. Hernandez TO FROM : Engr. Joseph Duke Amuan

Quotation of Electronic Components SUBJECT:

Dear Sir,

Good day!

Kindly refer to the quotation below and the attached Bill of Components for our common reference.

Bill of Components

	Bill of Components				
		ITEM / DESCRIPTION	UNIT PRICE (Php)	QUA NTIT Y	AMOUNT COST (Php)
l	Laptop	Acer Nitro 5 50YE i5 8gb 512 SSD RTX 3050 15.6" FHD IPS 144Hz	60,000	2	120,000.00
2	Printer	Epson L3110 Eco-Tank 3-in-1	12,500	1	12,500.00
3	Perimeter Fence and Tower		125,000	2	250,000.00
1	Perimeter Fence and Pole at Bridge Outlet		50,000	1	50,000.00
5	Arduino-based Synoptic Weather Station		726,854	2	1,453,707.62
	Point to Poin	nt AP Wireless Bridge 5GHz			
	Lan Cable C.	AT6 Outdoor Cable 300 meter+			
	RJ 45 Pass Through 25 pieces Pass Through Crimper Branded Desktop PC Processor: 10th Gen Intel® Core i5-10400 (12 MB cache, 6 cores, 12 threads, 2.90 GHz to 4.30 GHz Turbo) Memory: 8GB, 1 x 8 GB, DDR4, 2933 MHz Storage: 256GB, M.2, PCIe NVMe, SSD O.S.: WINDOWS 11 HOME Graphics: UMA GRAPHICS MS OFFICE HS 2021 -Keyboard and Mouse 22 inched 1080p monitor				

ELECTRONICS STORE AND SERVICES 0966-239-4341 ATmega4809 (datasheet),5V, INPUT VOLTAGE 6 - 20V, DIGITAL I/O PINS14 — 5 Provide PWM Output.PWM DIGITAL I/O PINS 5. ANALOG INPUT PINS 6. DC CURRENT PER I/O PIN 20 mA, DC CURRENT FOR 3.3V PIN 50 mA, FLASH MEMORY 48 KB (ATmega4809) SRAM 6,144 Bytes (ATmega4809) EEPROM 256 Bytes Arduino (ATmega4809) CLOCK SPEED 16 MHz RADIO Uno Wifi R2 MODULE u-blox NINA-W102 (datasheet) SECURE ELEMENT ATECC608A (datasheet), INERTIAL MEASUREMENT UNIT LSM6DS3TR (datasheet), LED_BUILTIN 25 LENGTH 68.6 mm WIDTH 53.4 mm WEIGHT 25 g Output: 0.4V to 2V Testing Range: 0.5m/s to 50m/s Start wind speed: 0.2 m/s Anemomete r Wind Speed Sensor Resolution: 0.1m/s Accuracy: Worst case 1 meter/s Max Wind Speed: 70m/s Brand Name: DFRobot **Temperatur** Origin: Mainland China e Humidity Sensor SHT20 I2C Type: Cable Adapter Waterproof Probe Certification: CE Spectral range 300~1100nm Supply 5V,12-24VDC Range 0-1500W/m2 Resolution 1W/m2 Output 0-5V,4-20mA,RS485 *Response time* ≤5*s Cosine correction* $\leq \pm 10\%$ (Solar elevation angle=10°) Rika RK200 04 RS485 Output *Non-linear* $\leq \pm 3\%$ *Temperature effect* $\pm 0.08\%$ /°*C* Solar Radiation Stability ≤±2%/year Sensor Pyranometer Operating Temperature -40°C-+80°C Ingress Protection IP65 Weight(unpacked) 420g Shell material Aluminum alloy Storage Condition 10°C-60°C@20%-90%RH Material: aluminum alloy For: Wind direction sensor / weather station Product Type: Six elements of meteorology Interface type: RS485 Measuring range: 0 ~ 360 ° Accuracy: ±3° Starting wind speed: $\leq 0.5 \text{m/s}$ Power supply mode: DC Output form: current 4~20ma voltage 0~5V Wind 0~10V RS485 Direction Sensor *Instrument line length: standard: 2.5 meters* Load capacity: current type output impedance $\leq 250\Omega$ Voltage type output impedance $\geq 1K\Omega$ Working environment: temperature -40 $^{\circ}$ C \sim 50 $^{\circ}$ C humidity $\leq 100\%$ RH Protection level: IP45 Cable grade: temperature grade: 80 ° C Rated voltage: 300V Product power consumption: 5.5mW Wind direction measurement range; 16

ELECTRONICS STORE AND SERVICES 0966-239-4341 orientation Wind direction measurement accuracy: 1 Response time: less than 5 seconds Baud rate: 9600 Communication port: RS485 Power supply: 12V-24V DC Power consumption: Operating temperature: -30-80 ° C Operating humidity environment: 0-100% RH (15-95% RH) Size: Approx. 16*23cm/6.3*9.06in Max: 8mm/min **Tipping** Resolution 0.2mm(6.28mL) Bucket Rain Gauge $Accuracy(2mm/min) \pm 4\%$ Meter Sensor Output Pulses, RS485(12-24VDC supply) Ranges: 0.33 to 3 ft; 0.33 to 12 ft; and 1 to 48 ft Resolution: 0.009 in, 0.035 in, and 0.141 in Repeatability: Greater of ± 0.03 inches (0.76 mm) or 0.1% of range @ constant temperature Accuracy: Better than 0.5% of range @ constant temperature; affected by temperature gradients, target echo strength, and speed of sound in vapors Transducer Type: Ruggedized piezoelectric Beam Angle: 12° conical shaped pattern Power: 3 and 12 ft range: 10 to 30 VDC @70 mA 48 ft range: 10 to 30 VDC @40 mA max Ultrasonic Water Level Sensor Output: 4-20 mA (4 mA is minimum water level and 20 mA is and Water Velocity Monitoring System maximum water level) Update Rate: 50 ms Operating Temperature: -40 to 158°F (-40 to *Humidity:* 0 to 100% (avoid heavy condensation) Housing Material: 303 stainless steel Dimensions: 3 and 12 ft rng: 4.062 in. long x 1.05 in. dia. (103.2 L x 26.7 Dia mm) 48 ft range: 4.75 inch long x 2.375 inch dia. (121 *L x 60 Dia mm*) Weight: 3 and 12 ft range: 12.7 oz (0.36 g) 48 ft range: 25.9 oz (0.73 kg) IP rating: IP 68, Nema 4X

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Large Volume Soil Moisture Sensor	Product Name: Capacitive Soil Moisture sensor Probe type: Probe electrode Measurement parameters: Soil moisture value Moisture Measuring range: 0 ~ 100%(m3/m3) Moisture Measurement accuracy: ±5% (m3/m3) Voltage output: 0-3V output Output signal with wireless: A:LORA/LORAWAN B:GPRS C:WIFI D:NB-IOT Supply voltage: 5V DC Working temperature range: -30 ° C ~ 70 ° C Stabilization time: <1 second Response time:<1 second Sealing material: ABS engineering plastic, epoxy resin Waterproof grade: IP68 Cable specification: Standard 1 meters (can be customized for other cable lengths, upto 1200 meters)	
Solder less PCB B	readboard MB102 830	
20 x 4 LCD Display		
	nterproof Plastic Electric Project Junction Box	
	o SDHC Class 10 UHS-1 64GB	
Micro SD Card Mod		
	mm Dupont Jumper Wire Cables (M-M, M-F, F-F)	
	60W Adjustable Temperature Welding Soldering	
	Precision Real-Time Clock Module w/ AT24C32	
Automaatic Wire Str	riper Cutter Stripper Crimper Pliers Crimping l Cutting and Stripping Wire Multitool	
	Distance Measuring Module HC-SR04	
SMD Hot air Rework station SET	Ac 220v (60hz) Power consumption 270w	
Soldering iron Set	temp,Controlrange:10-450°C AC: 220V Soldering iron 60W Adjustable Temp. Soldering	
Soldering lead Wire	soldering lead tamagawa 1.0mm,102mm	
Soldering lead Wire	Rubicon Soldering Lead 60/40 0.2m/60/50 Soldering wire	
soldering paste	10g Rosin soldering Flux paste soldering iron paste	
wick wire lead remover	3.5 mm length desoldering solder wick wire lead desoldering braid welding solder remover wick wire lead	
wick wire lead remover	2.5mmlength desoldering solder wick wire lead desoldering braid welding solder remover wick wire lead	
Soldering lead Wire	Rubicon Soldering Lead 60/40 0.8m/6040 Soldering wire	
Mechanic solder paste	welding flux XG-50 SMD SMT Soldering 42g	
3 hand Soldering Iron Stand	Clamp 3x 4.5x welding Magnifying Glass w/ led 360° rotate 3 hand soldering iron stand	

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Insulated Electrician	8" 200mm & 6" Pliers	
Pliers	170mm wire Cutters	
Cutter Set	170mm diagonalPliers	
Cuiter Set	170mm needle nose Pliers	
digital Multi tastan	ANENG AN113D Handheld digital multi tester	
digital Multi tester	LCD w/AC / DC Voltage	
High precition clamp	YN Digital Multi tester AC/DC Multi tester clamp	
multi tester	Multi meter Multifuctional Voltage meter	
T.	sanwa YX360TRF Analog Multi tester Multi	
multi tester	meter	
magnet wire	magnetic wire AWG 21./ 1KILO	
-	magnetic wire AWG 16. /1KILO	
magnet wire	•	
torroid	20mm torroid ferrite ring core	
magnet wire	magnetic wire AWG 14./1KILO	
fast wire stripper	fast wire stripper	
just wire stripper	heat resistant high temp. insulation	
polymide tape	electronics polymide tape 33m a4:40mmx33mm	
polymide tape	heat resistant high temp. insulation	
	electronics polymide tape 33m a3:30mmx33mm	
Shrinkable tube	164/328/530 pcs heat shrink shrinkable	
ASSORTED	heatshrink tube assortment electronic Wrap Wire	
C D:	cable polyol	
Screw Driver set	(Flat and Philips Screw diver)	
8pcs. SET	(
THHN STRANDED WIRE	thhn stranded wire 14mm	
car automotive wire	30 m. roll size 18 any color 2 color	
car automotive wire	30 m. roll size 21 any color 2 color	
insulated terminal	,	
lugs	sv 1.25-4#22-18	
	box assortment SC6-25 Bare Tinned	
Terminal lugs	Copper lug Terminals Ring	
assorted	Wire connector	
1 1		
solar panel	100 WATTS MONO CRYSTALLINE	
solar panel	solar panel 200watts out door water proof	
som panei	mono crystalline	
	4000watts generator ac 12v to 24 volts	
wind generator	turbine generator with 5 nylon fiber blades for	
	solar back up	
Single phase 2-in 8	single phase 2-in 8 outgoing terminal box	
out	destribution box juncktion	
dc circuit breaker	Ac Circuit breaker DC circuit breaker 10 amp.2	
ac circuii vreaker	pole SPD B	
do oinouit huoakon	Ac Circuit breaker DC circuit breaker 32 amp.2	
dc circuit breaker	pole SPD B	
	pcb fuse holder PCB mount 2 pins	
pcb fuse holer	per pair	
Class O.::l- DI		
Glass Quik Blow	FUSE 5x20 Fast Blow insurance tube 250V 0.5A	[
Fuse	0.7A 1A 1.5A	[
ASSORTED	2A 2.5A 3A 4A 5A 6A	
power transformer	Power tranformer step down 220v to 12 0 12	
	vac 1 amp Power tranformer step down 220v to 12 0 12	
power transformer	vac 15 amp	
rolan		
relay	5 volts relay	

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7	LY2NJ 12 volts relay coil LY2N-J	
relay	10A ac 220v coil power relay	
	LY2NJ HH62P 8pins Socket 200 pcs 10 values Rectifier diode assorted kit	
Rectifier diode	1N4001/4002/4003/4004/4005/4006/4007	
Dontifica di do	20 pcs. 30A BARRIER diodes rectifier	
Rectifier diode	for solar	
BRIDGE RECTIFIER DIODE	KBPC5010 SEP BRIDGE DIODE 50A 1000V	
rocker switch	Dual rocker switchbig with 6 pin heavy duty 25a	
Rectifier diode	20 pcs. 20A BARRIER diodes rectifier for solar	
Adjustable voltage reg.	LM317T adj. for power supply	
Voltage regulator	L7805 (5) V	
Voltage regulator	L7812 (12) V	
Voltage regulator	L7810 (10) V	
Voltage regulator	L7809 (9)V	
	, ,	
Voltage regulator	LD1117 (3.3) V	
resistor	860 pcs 1 ohm-1m ohm 1/4W film Resistors Assortment Kit 43 Values	
TRANSISTOR	tip3055 and tip2955	
TRANSISTOR	BC557	
mosfet	IRF3205PBF 55V 98A	
mosfet	IRF1404 162A/40V	
ic	TL494CN DIP 16 IC	
7 7	100 pcs assorted 3nn 5mm kit set f3 f5 led diy	
led	led set 5 colors white, yellow, red, green, blue	
pcb	fr4 pcb 10x15cm single side copper	
<i>pco</i>	clad plate diy pcb kit laminated circuid board	
TORROID	33mm*19mm*11mm white iron core ferrite ring torroid	
	5x7 pcb diy proto type	
universal pcb	pcb universal board yellow	
ferric chloride	ferric choride for pcb Etching 120 ml	
cat 6 utp cable	cat 6 utp cable outdoor solid cca net cable	
1 ,	usb type A standardport female solder	1
usb port	jack connector Pcb Socket usb type A	
terminal block	25 a Terminal Block molded type electrical 12	
terminal block	25 a Terminal Block molded type electrical 4	
male female socket	pairs female plug+male plug jack socket Adapter	
adapter dc	dc Power supply panel mount connector	
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	1
connector	2 plug with terminal wires cables socket	
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
connector 10 set micro jst 2.0	3pin plug with terminal wires cables socket sets micro jst 2.0 Ph Male Female Connector	
connector	4pin plug with terminal wires cables socket	
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
connector	5pin plug with terminal wires cables socket	
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
connector	6pin plug with terminal wires cables socket	

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ELECTRONICS STORE A	ND SERVICES	
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
onnector	7pin plug with terminal wires cables socket	
0 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
onnector	8pin plug with terminal wires cables socket	
0 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
connector	9pin plug with terminal wires cables socket	-
10 set micro jst 2.0	sets micro jst 2.0 Ph Male Female Connector	
connector	10pin plug with terminal wires cables socket	-
usb port	double layer A Female -180 deg.	
resistor	0.1 Ohm 5 watts	
ightning arrester full et	full set lightning rods outdoor ground wire 15m, ground rod,copper lightning protection stainless steel lightning rod	
pe pipe	pe pipe 1/2*100m	
1	400w boost converter 15a dc-dc power converter]
boost converter 15a	boost module step up converter constsnt current	
1200w high power dc to dc boost Converter	boost dc to dc 8-60v to 12v-80	
dc-dc step down	stepdown module dc4.0-40v to1.25-37	
module	adjustable regulatorled volt meter buck adapter]
12 volts cooling fan	brushless 12 volts cooling fan	
volt meter	dc 60w 100A Balance Voltage Battery power analyzer Watt Meter	
heat sink	10 pcs 21x15x11mm black aluminum	
neat sink	6inch aluminum heat sink (suklay type)	-
		-
capacitor	10000uf 50V	
capacitor	470uf 50v	
capacitor	alum.electrolytic capacitor 10v 16v 25v 50v 0.1 to 1000 uf random 4 php	
UPS	(1500VA /900W) 220/VAC *4 OUTLET	
use	ANS-hbolt type fuse holder ANS-8 Safety Plate 30 amp hole black holder fuse	
fuse	ANS-hbolt type fuse holder ANS-8 Safety Plate 20 amp hole black holder fuse	
fuse	ANS-hbolt type fuse holder ANS-8 Safety Plate 15 amp hole black holder fuse	
battery	LVTOOPSUN SOLAR GEL BATTERY 12V 100 AH	
SOLAR BATTERY	SOLAR GEL BATTERY deep cycle lead acid 12v 200 ah 250 ah maintenance free	
lifep04 battery	32650 life04 battery optimum nano 3.2 rechargeable battery	
interconnect	copper busbar lifep04 interconnect for litium 3.2v Lifep04 for prismatic big battery etc. 40mm	
32650 lifep04 battery	32650 4*5 lifep04 battery holder backet cell	
bms	power central lifep04 bms 12 v 30a 4s 3.2v]
battery meter	Multi function battery meter bms lcd digital capacity indicator volt meter	
THHN STRANDED WIRE	thhn wire mx#10 5.5 mm2 150m	
pull box electrical	box metal enclosure nema 4 outdoor]
accessories	dust water proof big size]
solar inverter	Solar inverter snadi solar inverter toroidal wall	
SOLUI HIVEILEI	mounted 12V 1000W SNAT Inverter	

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outdoor junction	Outdoor junktion Box IP65 weather water proof with rubber gasket and screws high quality 100x100x70 (square	
outdoor junction	Outdoor junktion Box IP65 weather water proof with rubber gasket and screws high quality 150x110x70 (square	
weather proof box	400x350x120mm waterproof weather proof outdoor enclosure square junction box	
dc circuit breaker enclosure	2 way dc circuit enclosure for outdoor	
relay module	power supply 12v to 48v board relay module power off protection module automatic switching module ups	
solar charge controller	scc SRNE MPPT 40 amp mf4860 series 12/24v 48v solar charge controoler	
Cable gland	M20/20MM Waterproof Compression Cable stuffing gland lock	
cable tie	nylon cable tie high qua;ity white	
multi purpose locking cable	metal zip ties stainless steel self locking zip tie/ cable tie	
terminal box	Single phase 2-in 6/8 out wiretrminal box distributiuon box	
mini bench drill for pcb diy	eagle villa 710W mini metal electric bench dril 0.3-1.2mm 0.6mm 1.1 to 2.0 mm pcb drill bit	
drill bit	0.3-1.2mm 0.6mm 1.1 to 2.0 mm pcb drill bit	
DRILL	makita cordless drill set	
GRINDER	makita 2 in 1 power tools grinder and drill in a hox	

Should you have other inquiries, please don't hesitate to call our attention immediately.

LEAD TIME	14-45 days
CONTACT NO.	0966-239-4341
Email Address	elexhub@gmail.com

Thank you for giving us the opportunity to serve you.

in a box

silicone sealant

gpu ic heatsink

thermal grease paste HY510 for cpu

TOTAL

Prepared by:

sealant

thermal paste

Engr. Joseph Duke Amuan

1,886,207.62







