Kits & Modules available on order – Please complete the order form and email to projects@zs6kmd.za.net

IMAGE	PRODUCT	DESCRIPTION
	DIY M8 LC Digital Inductance Capacitance Meter Kit R 250.00 Product Code: M8 LC	Inductance measurement range: 0.1µH-2H Capacitance measurement range: 1pF-2.5µF Electrolytic capacitor measuring range: 0.1µF-30000µF
	QRP 1-30 Mhz Manual Antenna Tuner Tune Kit R 250.00 Product Code: QRP ATU	LED display Interface: Q9 type Antenna Interface: Q9 type Impedance range: 30 ~ 300 Ω Withstand Power : <20 W Input power(Turning): <3 W Operating Frequency: 1-30 MHz Withstand RF power: < 15 W RF power required(Tuning) : < 3 W
	HAM Radio QRP Kit Telegraph CW Transceiver Receiver Radio Station R 199.00 Product Code: QRP TRX	This is a very small simple 40 meter band micro-power CW transceiver, the DC power supply uses a 9V battery or an external 9-12V. With a good antenna communications over several hundred km is possible. Power: 9V-12V (12V regulated PSU) Antenna: 50 ohm, unbalanced Transmit power: 1.9W (using 9V power supply), 2.6W (using 12V power supply) Frequency: The oscillator frequency emission: 7023KHz; receiving local oscillator frequency: about 7023-7026KHz Working Mode: CW

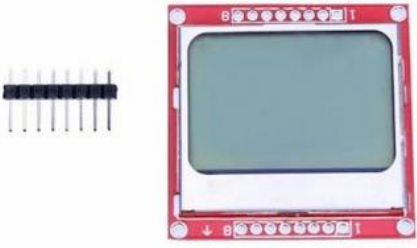|		No.	Specification	Amount
	Universal Parts Component Element Suite Kit Set For Arduino R 275.00 Product Code: UNI PART1	1	140 jumpers box	1
		2	830 hole breadboard	1
		3	Bread board power supply module	1
		4	Bread line	65
		5	1 X 40 pin	2
		6	Resistor 1M	30
		7	Resistor 100K	30
		8	Resistor 47K	30
		9	Resistor 10K	30
		10	Resistor 4.7K	30
		11	Resistor 1K	30
		12	Resistor 100R	30
		13	Adjustable resistor 10K	2
		14	Adjustable resistor 100K	2
		15	LED red	3
		16	LED Yellow	3
		17	LED White	3
		18	LED Green	3
		19	12 x 12 x 7.3 big button	6
		20	Red, blue, white and round hat	3
		21	Green, white party hat	3

	1uF-2200uF 125Pcs 25 Value Electrolytic Capacitors Assorted Kit R 120.00 Product Code: CAP ASS1	5 x 47uF 16V 5 x 100uF 16V 5 x 220uF 16V 5 x 470uF 16V 5 x 1000uF 16V 5 x 10uF 25V 5 x 47uF 25V 5 x 100uF 25V 5 x 220uF 25V 5 x 330uF 25V 5 x 470uF 25V 5 x 1000uF 25V 5 x 2200uF 25V 5 x 1uF 50V 5 x 3.3uF 50V 5 x 4.7uF 50V 5 x 6.8uF 50V 5 x 10uF 50V 5 x 33uF 50V 5 x 47uF 50V 5 x 100uF 50V 5 x 220uF 50V 5 x 330uF 50V 5 x 470uF 50V 5 x 1000uF 50V
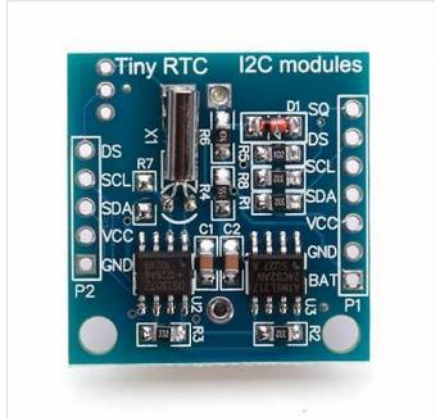
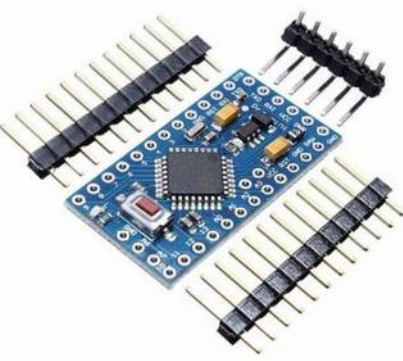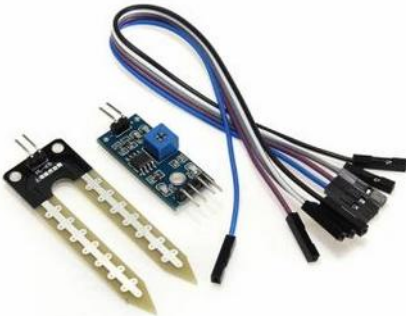|		
	DC 0.28 Inch 30V/100V 10A/100A Digital Voltmeter Ammeter LED Panel Amp Volt Gauge R 88.00 Product Code: DC V/A1	Update frequency: about 200ms Power supply scope: DC 4.5V ~ 30V Measurement range: 10A / 50A / 100A 30V / 100V Measurement accuracy: 0.1% Storage temperature: -10°C ~ +65°C Operating current: <20mA Operating humidity: 10% ~ 80% (no condensation) Sun exposure: no direct exposure Size: 47 x 23 x 18mm
	100pcs Mini Micro Momentary Tactile Tact Switch Push Button DIP P4 R 29.00 Product Code: TACTILE1	Size: 6 x 6 x 5mm Temperature: -30 ~ +70 Centigrade Withstand voltage: AC250V Rated load: DC12V 50mA Contact resistance: ≤0.03Ω Insulation resistance: ≥100MΩ

	500Pcs 3MM LED Diode Kit Mixed Color Red Green Yellow Blue White
	R 75.00
	
	Product Code: LED1
		Working current: 20 (mA)
		Working voltage: Red: 1.9V-2.1V
		     Yellow: 1.9V-2.1V
		     Blue:3.0V-3.2V
		     Green: 2.1V-3.0V
		     White:3.0V-3.2V
		MCD:Red:300-400
		     Yellow: 300-400
		     Blue:500-700
		     Green: 400-500
		     White:6000-8000
		Wave length: Red: 620-625
		     Yellow: 588-590
		     Blue:455-465
		     Green: 567-570
		     White: Colour temperature 8000

	0.36 Inch Digital Voltmeter 3 - 30V Voltage Gauge LED Panel Meter 2 Wire R 55.00 Product Code: DVM1	Update frequency: about 200ms Measurement range: 3 - 30V Measurement accuracy: 1% Storage temperature: -10 °C to +65 °C Operating current: <20mA Operating Humidity: 10 to 80% (no condensation) Display size: 22 x 14 x 7 mm

	0.56 Inch Digital Ammeter AMP Mini Current LED Panel Meter 0-1A / 10A / 50A / 100A R 75.00 Product Code: DAM1	DC ammeter: 0-1A/0-10A/0-50A/0-100A with reverse polarity protection Power supply: DC4-30V Measuring range: 0 - 1A / 0 - 10A / 0 - 50A / 0 - 100A Measurement accuracy: ±0.1% Refresh rate: about 200ms Display: 0.56 inch digital tube Colour: Red, green, yellow, blue Operating current: Less than 8mA Operating temperature: -10°C to 65°C Input impedance: 5mΩ Overall dimension: 48 x 29 x 26mm
	0.56 Inch DC 0-10/30/200V 3 Wire LED Voltmeter Digital Display Panel Volt Meter R 75.00 Product Code: DVM2	0.56 LED Digital DC Voltmeter: 0 ~ 10V, 0 ~ 30V, 0 ~ 200V Power supply: DC 4V ~ 30V Measuring range: 0 ~ 10V, 0 ~ 30V, 0 ~ 200V Measurement accuracy: ±0.1% Refresh rate: about 200ms Display: 0.56 inch digital tube Display colour: red, yellow, green, blue Operating current: <8mA Operating temperature: -10°C to +65°C Input impedance: 100K Overall dimension: 48 x 29 x 26mm
	50 Pair 40 Pin 2.54mm Male Female SIL Socket Row Strip PCB Connector R 232.00 Product Code: HEAD1	Pitch: 2.54mm Gender of Connector: Male & Female Number of Pins: 40 Pin Type of Row: Single-Row Type of connector: Straight 50 x 40Pin Single Row Straight Male 50 x 40Pin Single Row Straight Female
	24 In 1 Sensor Kit UNO R3 Sensor Starter Kit For Arduino R 520.00 Product Code: SENS1	1 x 3W LED module 1 x 5V relay module 1 x 1307 clock module 1 x Button switch module 1 x Obstacle avoidance sensor 1 x High sensitivity microphone 1 x Photoresistor module 1 x Infrared emission 1 x IR receiver module 1 x Flame sensor module 1 x Laser sensor head module 1 x Metal touch module 1 x Mini reed module 1 x Magic light cup 1 x Knock sensor 1 x Tilt switch 1 x 3 colour led module 1 x Temperature sensor 1 x Temperature and humidity sensors 1 x Passive buzzer 1 x Linear Hall sensor 1 x The rotary encoder 1 x Hunt sensor 1 x Active buzzer

	30A AC And DC Current Sensor Module R 60.00 Product Code: C SENS1	Chip: ACS712ELCTR-30A Supply power: 5V Measuring range: 30A Analogue output: 66 mV/A When the current is 0, the output is the power midpoint voltage, isolated Dimension: 37 x 19mm PCB Size: 31 x 13mm
	1602 Character LCD Display Module Yellow Backlight R 49.00 Product Code: 1602Y	LCD display module with yellow backlight Wide viewing angle and high contrast Built-in industry standard HD44780 equivalent LCD controller Commonly used in: copiers, fax machines, laser printers, industrial test equipment, networking equipment such as routers and storage devices LCM type: Characters Can display 2-lines X 16-characters Operate with 5V DC Module dimension: 80mm x 36mm x 12mm Viewing area size: 64.5mm x 16mm
	1602 Character LCD Display Module Blue Backlight R 49.00 Product Code: 1602B	LCD display module with blue backlight Wide viewing angle and high contrast Built-in industry standard HD44780 equivalent LCD controller Commonly used in: copiers, fax machines, laser printers, industrial test equipment, networking equipment such as routers and storage devices LCM type: Characters Can display 2-lines X 16-characters Operate with 5V DC
	Nokia 5110 LCD Module White Backlight R 65.00 Product Code: N5110	Nokia 5110 LCD Module, Arduino Compatible You will Need: (NOT Included in this Listing !) Set of Two 1K Resistors (For Safe Operation) Set of Four 10K Resistors (For Safe Operation) Pin Connections 1. RST--------- reset. 2. CE------------chip selection. 3. DC-----------data/commands choice. 4. DIN-----------serial data line. 5. CLK------------serial Clock Speed. 6. VCC----------Power, 3.3V (Positive). 7. LIGHT--------- backlight control terminal. 8. GND-----------power negative.

	Arduino UNO R3 Advanced Module Learning Kit For Arduino R 788.00 Product Code: AUK1	1 x Makerduino UNO (improved version of Arduino UNO) 1 x Electronic Brick Shield 1 x EB - Red LED 1 x EB - RGB LED 1 x EB - Push Button 1 x EB - Momentary Push Button 1 x EB - LED Button 1 x EB - Ultrasonic Sensor 1 x EB - PIR Motion Sensor 1 x EB - Light Sensor 1 x EB - Humidity Temperature Sensor 1 x EB - Infrared Receiver 1 x EB - Water Sensor 1 x EB - Toggle Touch Sensor 1 x EB - Momentary Touch Sensor 1 x EB - Tilt Sensor 1 x EB - 5V Relay 1 x EB - Buzzer 1 x EB - RTC 1 x EB - I2C 1602 LCD 1 x EB - 315M RF Transmitter 1 x EB - 315M RF Receiver 1 x 9g Servo 1 x 9V Battery to DC Converter 1 x 40P Female Dupont Wires 1 x 50cm USB Programming Cable 1 x IR Remote Controller 1 x Box
	Tiny RTC I2C AT24C32 DS1307 Real Time Clock Module R 42.00 Product Code: DS1307	DS1307 I2C real time clock chip (RTC) 24C32 32K I2C EEPROM memory Using LIR2032 rechargeable lithium battery with charging circuit Solve the problem of no literacy of the DS1307 with backup battery Support timing 1 year of the DS1307 after fully charged Leads to the DS1307 clock pin provides a clock signal for the microcontroller Other I2C devices can be cascaded Size: 27 x 28 x 8.4mm
	KY-015 DHT11 Temperature Humidity Sensor Module R 42.00 Product Code: DHT11	Model: sensor DHT11 Signal transmission range: 20m Humidity measuring range: 20 - 95% RH Humidity measurement error: + / -5% Temperature measurement range: 0 - 50°C Temperature measurement error: + / -2°C Operating voltage: 3.3 - 5V Output type: digital output Small plates PCB size: 3.2 x 1.4cm Net weight: 8g

	Keypad Shield Blue Backlight For Arduino Robot LCD 1602 Board R 95.00 Product Code: KS1602	This is a basic 16 character by 2 line black-on-green display. Utilizes the extremely common HD44780 parallel interface chipset. Interface code is freely available. Blue Backlight with white words. Uses 4 Bit Arduino LCD Library. Size:8cm x 5.9cm - 3.15inch x 2.32inch.
	GY-273 HMC5883L 3 Axis Electronic Compass Magnetic Sensor Module R 42.00 Product Code: GY273	Item name: HMC5883L module (three-axis magnetic module) Model: GY-273 Chips: HMC5883L Communication: IIC communication protocol Measuring range: ± 1.3-8 gauss Power supply: 3-5V Size: 1.8 x 1.3 cm
	ATmega328P Arduino Compatible Nano V3 Improved Version With USB Cable R 79.00 Product Code: ARDNAN	Microcontroller Atmel ATmega328 Operating Voltage (logic level): 5V Input Voltage (recommended): 7V ~ 12V Input Voltage (limits): 6V ~ 20 V Digital I/O Pins: 14 (of which 6 provide PWM output) Analogue Input Pins: 8 DC Current per I/O Pin: 40mA Flash Memory: 32KB (ATmega328) (of which 2 KB used by bootloader) SRAM: 2KB (ATmega328) EEPROM: 1KB (ATmega328) Clock Speed: 16MHz
	ATMEGA328 328p 5V 16MHz Arduino-Compatible Pro Mini Module Board R 69.00 Product Code: ARDPM	New version, Pro Mini 328 5V 16MHz , Arduino-compatible High Quality components and soldering material Bootloader Ready, plug and play.

	BMP180 Digital Barometric Pressure Sensor Module Board R 42.00 Product Code: BMP180	Size: 1.4 x 1.2cm Supply voltage: 1.8V to 3.6V(VDDA), 1.62V-3.6V(VDDD) Pressure ranges: 300 to 1100hPa (altitude 9000m - 500m) Low power consumption: 5µA Resolution: 0.06hPa (altitude 0.5m) in low power consumption model, while it's 0.03hPa (0.25M) in high liner model. This module is compliant to RoHS without lead. MSL 1 reaction time: 7.5ms Standby Current: 0.1µA LCC package
	Soil Hygrometer Humidity Detection Module Moisture Sensor R 39.00 Product Code: SHHDM	Operating voltage: 3.3V~5V. Adjustable sensitivity (shown in blue digital potentiometer adjustment) Dual output mode, analogue output more accurate. A fixed bolt hole for easy installation. With power indicator (red) and digital switching output indicator (green). Having LM393 comparator chip, stable. Panel PCB Dimension: 3cm x 1.5cm. Soil Probe Dimension: 6cm x 2cm. Cable Length: 21cm.
	UNO Basic Starter Learning Kit For Arduino R 590.00 Product Code: AUK2	1 x Arduino UNO R3 development board 1 x USB cable 1 x Prototype extension board 1 x Mini breadboard 1 x 5V stepper motor 1 x 2003 stepper motor driver board 5 x Red LED 5 x Green LED 5 x Yellow LED 2 x Vibration Sensor 1 x Flame sensor 1 x LM35 temperature sensor 1 x Infrared receiver 3 x Photoresistor 4 x Key cap 4 x Key switch 1 x Adjustable potentiometer 1 x Passive buzzer 1 x Active buzzer 1 x Jumper cap 1 x Large breadboard 1 x Remote Control 1 x 1602 Screen 1 x 9G servos 1 x Component box 1 x 10p DuPont line 30 x Breadboard line(approximately) 1 x 220ohm resistance 1 x 8*8 dot matrix 1 x One digit eight segment tube 1 x Four digit eight segment tube 1 x IC 74HC595 1 x Battery Holder 1 x 1K resistor plug 1 x 10K resistor plug 1 x 9V battery 1 x 2.54mm 40pin pin header

	Basic Starter Learning Kit UNO For Arduino R 412.00 Product Code: AUK3	1 x Arduino UNO 2012 1 x 830 breadboard 1 x Storage components box 5 x Red LED 5 x Yellow LED 5 x Green LED 8 x 220 Ohm Resistor 5 x 1K Resistor 5 x 10K Resistor 1 x Active buzzer 1 x Passive buzzer 4 x Button switch 2 x Digital tube 1 x 6 AA Battery holder 1 x 4 Digital tube 2 x Ball switch 3 x Photoresistor 1 x Adjustable resistance 1 x Flame sensor 1 x Infrared receiver 1 x LM35 temperature sensor 1 x 74H595 1 x 8*8 Matrix 1 x USB cable 30 x Colourful breadboard cable 1 x Mini remote control
	Starter Learning Kit MKII UNO For Arduino R 695.00 Product Code: AUK4	1 X BUONO UNO R3 1 X USB cable 1 X Breadboard 1 X bundle Breadboard Jump Wires (Approximately 65 pcs) 1 X Rotary Potentiometer 1 X Piezo Buzzer 1 X 9v power adapter 3 X Red 3mm LED 3 X Yellow 3mm LED 3 X Green 3mm LED 3 X Screw and nut 5 X Mini Push Button 1 X CR2032 battery socket 1 X 32.768 KHz watch crystal 1 X DS1307 RTC Chip 1 X Thermister 1 X Photoresistor 5 X Diode 1N4007 5 X Transistor NPN 2N3904 5 X Transistor NPN 2N3906 2 X Transistor NPN BC547 2 X Transistor NPN BC557 5 X 22pf Ceramic Capacitor 5 X 100nf Ceramic Capacitor 5 X 10nf Ceramic Capacitor 2 X 1 µF /50V Electrolytic Capacitor 2 X 10 µF /50V Electrolytic Capacitor 2 X 100 µF /16V Electrolytic Capacitor 10 X 100Ω Resistors 10 X 220Ω Resistors 10 X 1 kΩ Resistors 10 X 2.2 kΩ Resistors 10 X 4.7 kΩ Resistors 10 X 10 kΩ Resistors 10 X 22 kΩ Resistors 10 X 100 kΩ Resistors 10 X 330 kΩ Resistors 10 X 1 MΩ Resistors 1 X1602 LCD 1 X Breadboard PSU

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