













































P1 Package: Electronic Development, Robotics, Internet of things and sensors & STEM Kits










S.No	Name	Features	Quantity	Image
1	Arduino UNO, Cable	ATmega328P - 8 bit AVR family microcontroller, equivalent or better. Operating Voltage:5V Digital I/O Pins: 14 (of which 6 provide PWM output) Operating Voltage: 5V Digital I/O Pins: 14 (of which 6 provide PWM output) PWM Digital I/O Pins :6 Accessories : Case shell enclosure, compatible USB cable (length - 6 inch or more)	30	
2	Arduino Nano	ATmega328P - 8 bit AVR family microcontroller, equivalent or better Operating Voltage: 5V Digital I/O Pins : 14 (of which 6 provide PWM output) Alog Input Pins : 8 Accessories : Compatible USB cable (length -6 inch or more)	10	
3	Arduino Mega	ATmega328P - 8 bit AVR family microcontroller, equivalent or better Operating Voltage: 5V Digital I/O Pins : 54 (of which 6 provide PWM output) Alog Input Pins : 16 Accessories : Compatible USB cable (length -6 inch or more)	10	
4	RASPBERRY PI Zero 2W	RASPBERRY PI Pico with Memowy Card Slot	5	
5	Solderless 400 pin breadboard	Solderless 400 pin breadboard	30	
6	Solderless 800 pin breadboard	Solderless 800 pin breadboard	20	
7	Self Adhesive Proto Shield	Self Adhesive Proto Shield	20	
8	General Purpose Board (Small)	FR2 A Grade Material (140*90 mm)	30	

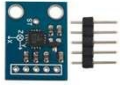








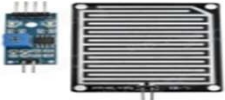


9	General Purpose Board (Big)	FR2 A Grade Material (90*75 mm)	30	
10	Female Berg Strip 40 pins	Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	
11	Male Berg Strip 40 pins	Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	
12	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines with I2C	20	
13	USB Cables A to B	USB Cable Set (A to B, 12 inch or more)	10	
14	Usb Cables Mini	USB Cable Set (Mini, 12 inches or more)	10	
15	Battery HW 9V-12V Rechargeable	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10	
16	Rechargeable Battery Charger	9-12V 2000 to 2500 mAh rechargeable battery charger	2	
17	Resistor Box	contains - 30 carbon film resistors of 20 different resistance values each assorted, packaged together & labelled.	20	
18	Capacitor Box	One kit contains - 20 electrolytic capacitors of 10 different capacitance values each. Assorted kit packaged together	20	
19	Linear Voltage Regulator: 7805	7805 IC	10	
20	Linear Voltage Regulator: 7812	7812 IC	10	
21	Linear Voltage Regulator: 7809	7809 IC	10	
22	Water Pump module	DC12V 3W Submersible Water Pump	4	

23	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx	30	
24	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module Mcu Control LED Display Module	10	
25	Bluetooth	HC 05 Bluetooth Module, voltage rating: 5 Volt	15	
26	7 Segment Led Display (4 digit)	LED 4-Digit Display Module Voltage Rating: 2.4V to 5.5V 4-Pin interface: Vcc, Gnd, Data, Clock	20	
27	GSM Module	Sim800L Gprs Transfer Board Micro Sim Gsm Core Ttl Port Module for Arduino	4	
28	GPS Module	GPS module	4	
29	Laser Diode	650 nm 5mW Mini Laser Dot Diode Module	10	
30	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	30	
31	Keypad	Universal 16 Key Switch Keypad	10	
32	Joy Stick	2-axis joystick with push button function	10	
33	Active Buzzer	small 5 volt	40	
34	Active Buzzer	big 5 volt	40	
35	Motor driver	L293d	10	

36	Sound Playback Module	ISD1820 voice recording module or equivalent	10	
37	12V, 150 RPM Motor With Wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor	40	
38	Node MCU / Wemos D1	ESP 8266 I2C, 1 wire, plug and play	6	
39	WeMos D1 R2	D1 R2 with WiFi ESP 8266/Operating Voltage: 5V	6	
40	Vibrating Motor	Weight: 10 Grams/Operating Voltage: 1.5 to 3V	20	
41	Alligator Connectors (12 inches)	Multi Colour Alligator Connectors- 12 inch	200	
42	Battery clips with DC Jack	9 volt battery clips with DC Jack	40	
43	Hookup Wires (Red Wire 100 Mtr)	Red & Black set 100 Meters each	4	
44	Hookup Wires (Black Wire 100 Mtr)	Red & Black set 100 Meters each	4	
45	Jumper Cable: Male-Male	Male-Male	1000	
46	Jumper Cable: Male-Female	Male-Female	600	
47	Jumper Cable: Female-Female	Female-Female	400	
48	RGB LEDs	Regular 5mm 3-5 volt Range	400	


49	LEDs (Red)	Regular 5mm 3-5 volt Range	1000	
50	LEDs (Green)	Regular 5mm 3-5 volt Range	1000	
51	LEDs (Blue)	Regular 5mm 3-5 volt Range	1000	
52	LEDs (yellow)	Regular 5mm 3-5 volt Range	1000	
53	LEDs (white)	Regular 5mm 3-5 volt Range	1000	
54	555 timer ic	LM 555 Timer IC./Voltage range - 4.5V to 16V	30	
55	Atmega16A PU	8 bit microcontroller Individual IC (DIP). Voltage range: 2.7V to 5.5V. Operatiol Range: - 40°C to +80°C	10	
56	Diode & Transistor kit	One Kit Contains - 25 Assorted Basic Diodes of 4 different types each. Types: NPN Transistor -2N3904, BC547 PNP Transistor - 2N3906, BC557 Silicon Diode - 1N4148, Power Diode - Equivalent or better. Wattage: 1W, Current rating: 1A Assorted kit packaged together and labelled	3	
57	Button Switch set 100 qty.	One Kit Contains - 100 buttons of different types. Types: Push, toggle, rotary, selector and slide switch. Assorted kit packaged together and labelled.	300	
58	Capacitive touch module	I2C./Voltage Range:2.5V to 3.6V DC.	20	
59	Capacitive Touch Switch	Digital Capacitive touch switch module - TTP223B/Voltage Range: 2V to 5V DC	10	
60	IR Sensors, Obstacle avoider sensor	LM393/Detection distance:2 - 30 cm/Detection angle: 30 - 40°	20	

61	Triple Axis Magnetometer	3-Axis Magnetoresistive Sensors I2C Digital Interface Integrated 12-bit ADC Range of -8 to +8 Gauss 160 Hz Maximum Output Rate	10	
62	Humidity Sensor	Operating range: 20 - 95 % RH Temperature: 0 - 60 Celsius Power supply: 1.5V AC(Max sine) Operating frequency:	10	
63	Methane Natural Gas Sensor	MQ-2 Smoke Detection	3	
64	Alcohol - Ethanol Sensor	MQ-3 Alcohol - Ethanol Sensor	3	
65	High Sensitivity CO Carbon Monoxide Sensor Detector	MQ-4 Methane tural Gas Sensor	3	
66	Smoke Detection	MQ-5 Methane Liquified Gas Sensor	3	
67	Air Quality Sensor	MQ-6 Liquified Petroleum Gas Sensor	3	
68	Methane Liquified Gas Sensor	MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	3	
69	Liquified Petroleum Gas Sensor	MQ-8 Hydrogen Gas	3	
70	Hydrogen Gas	MQ-135 Air Quality Sensor	3	
71	IR (transmitter) receiver - TSOP 1738	TSOP 1738/Switching rate – 38 KHz/ Volting Rating: 5V	10	
72	Ultrasonic Sensor	Working Voltage - DC 5V Working current - 15 mA Working Frequency - 40 Hz Range - 1 cm to 4 m Effectual Angle - <15° Measuring Angle - 30° Resolution - 0.3 cm	40	

73	Triple Axis accelerometer	3-axis sensing Small, low profile package 4 mm × 4 mm × 1.45 mm LFCSP Low Power : 350 μA (typical) Single-supply operation: 1.8 V to 3.6 V Temperature stability	10	
74	PIR Motion Detector Module	High digital pulse when motion detected Low digital pulse when idle /no motion detected Sensitivity range (upto 6 m) Power supply: 5V – 12V	20	
75	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Basedwore on the finger or earlobe Working voltage 3-5V	4	
76	Relay Module 2-channel	5V 10A 2 Channel Relay Module Compatible with Arduino	20	
77	Relay Module 1-channel	5V 10A 1 Channel Relay Module Compatible with Arduino	20	
78	Big sound Microphone module	Large Electret capsule sound module	10	
79	Soil Moisture Sensor	FC-28 with LM293 comparator/Operating Voltage: 3.3V to 5V.	6	
80	Touch Sensor: Capacitive Touch Sensor Module	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V	6	
81	Metal touch sensor module	KY-036 or equivalent metal touch sensor module	6	
82	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V./Size: 5mm X 40mm or equivalent.	6	
83	Flex Sensor	Sensor 2.2 Inches	6	
84	Temperature Sensor	Full range temperature sensor. Voltage Range: 4V to 30V. Error: ±0.5°C	6	

85	DHT 11	DHT 11/Voltage Range: 3V to 5V	40	
86	Force Pressure Sensor	force sensitive resistor with a square, 1.75x1.5", sensing area	4	
87	Color Recognition Sensor	TCS3200 Color Recognition Sensor	4	
88	Water Flow Sensor	Arduino Compatible Water flow sensor. 5V DC Input.	4	
89	Sound Sensor	Sound Sensor Module, Microphones module	10	
90	IR Sensors Array for Line Following	8 IR Sensors Array module for Line Following/Operating Voltage: 5V	10	
91	10000 Mh 5 volt Power Bank	MAh 5 volt Power Bank	5	
92	RFID Reader – Tags	Current :13-26mA / DC 3.3V Idle Current :10-13mA Sleep Current<80uA Peak Current<30mA Operating Frequency: 13.56MHz<30mA Read range between 20 cm to 1 m	10	
93	RF Modules Tx & Rx 315 MHz ASK	Frequency Range: 433.92/315 MHz Supply Voltage: 3 – 6 V Output Power : 4 – 16 Dbm Low power consumption Easy application	10	
94	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor + ULN2003 Driver Board	10	
95	DC motor 12V 150 rpm	12V DC Gear 150 RPM	20	

96	Position Servo Angle based Metal Gear	Position Servo Angle based Metal Gear	10	
97	Small Servo Metal Gear	Small Servo Metal Gear	10	
98	Continuous Metal Gear Servo 360	Continuous Metal Gear Servo 360	10	
99	Small Servo Plastic Gear	Small Servo Plastic Gear	40	
100	150 RPM BO Motor	150 RPM BO Motor	10	
101	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	10	
102	Servo Motor Testor	CCPM 3 channel Servo Tester	4	
103	Robotics DIY Kit 4 wheel robotic kit with brain	Robotics DIY kit compatible with programmable intelligent brain/brick.	3	
104	Mechanical Construction kit	Metal/plastic mechanical construction kit	5	
105	Drone Kit	DIY, Assembled Drones with remote	1	
106	Aerospace Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	Spectracore

107	Automobile Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	
108	Bio-medical Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	Spectracore
109	Agritech Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	Spectracore
110	Bio-tech Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	Spectracore
111	Water/Sanitation Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	Spectracore
112	Other potential STEM application Kit	Proprietary Kits, Each Kit has 5-6 Projects, Packaged in storage boxes	1	