

Parts Export

Generated: 2026-06-10 12:55:52

Total Parts: 71

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	COC-00002-A	Corrugated Plastic Sheet White	CO - Consumables	Coroplast, IntePro	Lightweight corrugated plastic sheet designed for signage, packaging, protection panels, DIY projects, robotics structures, and industrial applications. It provides excellent durability, water resistance, and impact resistance while remaining easy to cut and shape for custom designs.	Sheet Type: Corrugated Plastic Sheet Color: White Thickness: 2mm – 5mm	corrugated plastic sheet • polypropylene board • white plastic sheet • coroplast sheet • DIY material
No Image	COC-00002-B	Corrugated Plastic Sheet, Black	CO - Consumables	Coroplast, IntePro	Lightweight black corrugated plastic sheet designed for structural support, signage, robotics, packaging, DIY fabrication, and protective panel applications. It offers excellent durability, water resistance, flexibility, and impact resistance while remaining easy to cut and shape for custom project designs.	Sheet Type: Corrugated Plastic Sheet Color: Black Thickness: 2mm – 5mm	corrugated plastic sheet • coroplast sheet • black plastic board • polypropylene sheet • robotics material
No Image	COC-00002-C	Corrugated Plastic Sheet , Yellow	CO - Consumables	Coroplast, IntePro	Lightweight yellow corrugated plastic sheet designed for signage, robotics, DIY fabrication, packaging, and protective panel applications. It provides excellent durability, water resistance, flexibility, and impact resistance while being easy to cut and shape for custom engineering and creative projects.	Sheet Type: Corrugated Plastic Sheet Color: Yellow Thickness: 2mm – 5mm	corrugated plastic sheet • coroplast sheet • polypropylene sheet • yellow plastic board • DIY fabrication material
No Image	COC-00002-D	Corrugated Plastic Sheet, Green	CO - Consumables	Coroplast, IntePro	Lightweight green corrugated plastic sheet designed for signage, robotics, fabrication, packaging, and structural support applications. It offers excellent durability, water resistance, flexibility, and impact resistance while remaining easy to cut and shape for custom engineering and DIY projects.	Sheet Type: Corrugated Plastic Sheet Color: Green Thickness: 2mm – 5mm	corrugated plastic sheet • coroplast sheet • polypropylene sheet • green plastic board
No Image	COC-00002-E	Corrugated Plastic Sheet 3mm, Red	CO - Consumables	Coroplast, IntePro	Lightweight 3mm red corrugated plastic sheet designed for signage, robotics, DIY fabrication, packaging, and structural support applications. It provides excellent durability, water resistance, flexibility, and impact resistance while being easy to cut and shape for custom engineering and creative projects.	Sheet Type: Corrugated Plastic Sheet Color: Red Thickness: 3mm	corrugated plastic sheet • polypropylene sheet • red plastic board • 3mm coroplast sheet
No Image	COE-00001-C	CR2025 3V Lithium Coin Cell	CO - Consumables	Panasonic	.Panasonic CR2025 is a 3V lithium coin cell battery designed for long-lasting and reliable power in compact electronic devices. Built using Lithium Manganese Dioxide (LiMnO?) chemistry, it offers stable discharge characteristics and a shelf life of up to 10 years under proper storage conditions. Suitable for car key remotes, medical devices, digital watches, calculators, fitness devices, memory backup systems, and other small electronics.	Battery Type: Lithium Coin Cell Battery Size: CR2025 Chemistry: Lithium Manganese Dioxide (LiMnO?) Nominal Voltage: 3 V Nominal Capacity: 165 mAh Diameter: 20 mm Height: 2.5 mm Termination Style: Pressure Contacts Operating Temperature: –30°C to +60°C Weight (Unit): 2.3 g Shipping Weight: 0.008 kg Shipping Dimensions: 9.2 x 7.5 x 1 cm	CR2025 Battery • 3V Coin Cell • Lithium Battery • Panasonic Battery • Button Cell
No Image	COE-00002-A	Plusivo 30AWG Silicone Hookup Wire Kit	CO - Consumables	Plusivo	Assorted 30AWG silicone hookup wires, ultra-flexible and durable for electronics and DIY projects. Includes 6 colors × 20m each, totaling 120 meters, perfect for prototyping and wiring. Bonus items like heat shrink tubes, mini wire stripper, and colored wire ties included in a dispensing box.	Brand: Plusivo Item Type: Hookup Wire Kit Wire Gauge: 30 AWG Conductor Material: 0.08 mm Tinned Copper (Stranded) Insulation Material: Silicone Rated Voltage: 300 V Rated Temperature: 200°C Wire Length: 20 meters per color (6 colors) Total Wire Length: 120 meters Weight: 285 g Shipping Weight: 0.27 kg Shipping Dimensions (L x W x H): 15 x 7 x 7 cm	Hookup Wire • Silicone Wire • Stranded Wire • 30AWG • Prototyping • Electronics

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	COM-00002-A	3D Filament	CO - Consumables	eSUN	High-quality 2.85mm white 3D printing filament designed for FDM/FFF 3D printers used in engineering prototypes, robotics, educational models, industrial fabrication, and product development applications. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for accurate and durable printed parts. Commonly used in electronics enclosures, robotic structures, mechanical models, DIY fabrication, and industrial design projects.	Filament Type: PLA / ABS / PETG Filament Diameter: 2.85mm Color: White Spool Weight: 750g – 1kg Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • white filament • FDM filament • 3D printer material • 2.85mm filament
No Image	COM-00002-B	3D Filament	CO - Consumables	eSUN	High-quality 2.85mm black 3D printing filament designed for FDM/FFF 3D printers used in prototyping, robotics, industrial fabrication, engineering models, and product development applications. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for durable and accurate printed components. Commonly used in electronics enclosures, robotic structures, mechanical prototypes, DIY fabrication, and industrial design projects.	Filament Type: PLA / ABS / PETG Filament Diameter: 2.85mm Color: Black Spool Weight: 750g – 1kg Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • FDM filament • 3D printer material • black filament • 2.85mm filament
No Image	COM-00002-C	3D Filament	CO - Consumables	eSUN	High-quality 2.85mm yellow 3D printing filament designed for FDM/FFF 3D printers used in prototyping, robotics, educational models, industrial fabrication, and product development applications. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for accurate and durable printed parts. Commonly used in electronics enclosures, robotic structures, engineering prototypes, DIY fabrication, and industrial design projects.	Filament Type: PLA / ABS / PETG Filament Diameter: 2.85mm Color: Yellow Spool Weight: 750g – 1kg Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • FDM filament • 3D printer material • yellow filament • 2.85mm filament
No Image	COM-00002-D	3D Filament	CO - Consumables	eSUN	High-quality 2.85mm blue 3D printing filament designed for FDM/FFF 3D printers used in prototyping, robotics, engineering models, educational projects, and industrial fabrication applications. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for durable and accurate printed parts. Commonly used in electronics enclosures, robotic components, mechanical prototypes, DIY fabrication, and product development projects.	Filament Type: PLA / ABS / PETG Filament Diameter: 2.85mm Color: Blue Spool Weight: 750g – 1kg Printing Temperature: 190°C – 220°C	3D filament • PLA filament • FDM filament • 3D printer material • blue filament • 2.85mm filament
No Image	EDA-00002-A	Alligator Clip to Female Dupont Jumper Wire	MM - Mechanical Module	Generic / OEM, KEYESTUDIO	10-pin jumper wire set featuring insulated alligator (crocodile) clips on one end and female Dupont connectors on the other. Designed for quick and secure temporary electrical connections in DIY projects, prototyping, and laboratory testing. Widely used in school physics labs, breadboard testing, circuit assembly, and component holding during soldering.	Item Type: Electronics Accessory Jumper Type: Female Clip Length: 22.6 mm Cable Length: 20 cm Material: Copper with Plastic Insulation Shipping Weight: 0.04 kg Shipping Dimensions: 7 x 4 x 2 cm	Alligator Clip Wire • Dupont Jumper Wire • 10 Pin Jumper • Crocodile Clip Cable • 20cm Test Lead
No Image	EDD-00002-A	Red LED	ED - Electronic Device	Generic	Red Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright red light when powered, ideal for TVs, monitors, telephones, computers. Suitable for general indicator applications, prototyping, and electronics projects.	Case/Package: DIP Diameter (mm): 10 Mounting Type: Through Hole Lens Appearance: Transparent Color: Red Forward Voltage (V): 2 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	Red LED • Indicator LED • Through Hole LED • DIP LED • 10mm LED
No Image	EDD-00002-B	Green LED	ED - Electronic Device	Generic	Green Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright green light with a transparent lens, ideal for TVs, monitors, telephones, and project indicators. Suitable for general indicator applications, prototyping, and educational electronics projects.	Case/Package: DIP Diameter (mm): 8 Mounting Type: Through Hole Lens Appearance: Transparent Color: Green Forward Voltage (V): 3.5 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	Indicator LED • Through Hole LED • DIP LED • Green LED • 8mm LED
No Image	EDD-00002-C	Yellow LED	ED - Electronic Device	Generic	Yellow Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright yellow light with a transparent body, ideal for TVs, monitors, telephones, and computers. Suitable for general indicator applications, prototyping, and project indicator panels.	Case/Package: DIP Diameter (mm): 10 Mounting Type: Through Hole Lens Appearance: Transparent Color: Yellow Forward Voltage (V): 3.2 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	Indicator LED • Through Hole LED • DIP LED • 10mm LED • Yellow LED

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	EDD-00002-D	Blue LED	ED - Electronic Device	Generic	Blue Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright blue light with a round transparent body, ideal for TVs, monitors, telephones, and computers. Suitable for educational, DIY, prototyping, and professional electronics applications.	Mounting Type: Through HoleThrough Hole LED Size (mm): 3 No. of Pins: 2 Color: Blue Head Shape: Round Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	Indicator LED • Through Hole LED • 3mm LED • DIP LED • Blue LED • Round LED
No Image	EDD-00002-E	White LED	ED - Electronic Device	ED Series / Generic	White Light Emitting Diode (LED) used as an indicator or illumination source in electronic circuits. Emits bright white light from a transparent housing, ideal for display panels, devices, and project indicators. Suitable for hobby, prototyping, and professional electronics applications.	Manufacturer: ED Series / Generic Compatible – White LED (3mm, DIP Type) Case/Package: DIP Mounting Type: Through Hole Lens Appearance: Transparent Color: White Forward Voltage (V): 2.8 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Weight: 1 x 1 x 1 cm	Indicator LED • Through Hole LED • White LED • 3mm LED • DIP LED
No Image	EDD-00005-B	12Volt regulator	ED - Electronic Device	Texas Instruments, STMicroelectronics, ON Semiconductor, Fairchild Semiconductor	LM7812 TO-92 voltage regulator device designed to provide stable 12V DC output for electronic circuits, embedded systems, communication modules, and power supply applications. It regulates higher input voltage into a constant 12V output with built-in thermal overload and short-circuit protection for reliable operation. Commonly used in power management circuits, robotics systems, Arduino projects, industrial electronics, and educational embedded applications.	Device Type: Linear Voltage Regulator Output Voltage: 12V DC Package Type: TO-92 Input Voltage Range: 14V – 30V Output Current: Up to 100mA	voltage regulator • TO-92 regulator • linear regulator • power supply IC • LM7812 • 12V regulator
No Image	EDK-00002-A	Ceramic capacitor	ED - Electronic Device	Generic, Murata, TDK, KEMET	A capacitor is a passive two-terminal electrical component used to store energy electrostatically in an electric field. It includes 20 capacitor values, 5 pieces of each type with a total of 100 capacitors.	Quantity: 100pcs (5 each per Value) Voltage: 50V	Electronics • passive • capacitor • ceramic • capacitor set
No Image	EDM-00002-A	Power switch	ED - Electronic Device	C&K, Omron	On/Off power switch designed for controlling electrical power in electronic devices, embedded systems, power supplies, and DIY projects. It provides reliable switching action for safely turning circuits ON and OFF with stable electrical contact and long operational life.	Switch Type: SPST (Single Pole Single Throw) Rated Voltage: 125V – 250V AC / 12–24V DC Rated Current: 3A – 10A	toggle switch • rocker switch • power switch • on off switch • SPST switch • electrical switch
No Image	EDM-00002-B	Power switch	ED - Electronic Device	C&K, Omron	On/Off power switch designed for controlling electrical power flow in electronic devices, power supplies, embedded systems, and DIY electronics projects. It provides a simple and reliable way to turn circuits ON and OFF with stable contact performance and long operational life.	Switch Type: SPST (Single Pole Single Throw) Rated Voltage: 125V – 250V AC / 12–24V DC Rated Current: 3A – 10A	toggle switch • rocker switch • power switch • SPST switch • electrical switch • on/off switch
No Image	EDR-00001-220Z	Resistor - 220 Ohm	ED - Electronic Device	Yageo, Vishay, KOA Speer, TE Connectivity, Generic	It is a 220 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications.	Series: – Resistance (Ohm): 220 Tolerance (%): 1 Power Rating: 250mW Composition: Metal Film Temperature Coefficient: +/-50ppm/°C Operating Temperature (°C): - 40 – 150 Case/Package: Axial Length (mm): 6 Mounting Type: Through Hole Shipping Weight: 0.001 kg Shipping Dimensions: 1 x 1 x 1 cm	
No Image	EDR-00002-10K0	Potentiometer	ED - Electronic Device	ED Series / Generic Compatible, Bourns, Alpha, Omega	10KΩ rotary potentiometer used for adjusting voltage, current, and signal levels in electronic circuits. Features smooth single-turn rotation with a durable 15mm shaft and through-hole mounting. Ideal for audio control, Arduino analog input, sensor calibration, and embedded system tuning.	Manufacturer: Generic Resistance (Ohm): 10K Tolerance (%): 20 Temperature Coefficient: ±100ppm/°C Operating Temperature (°C): -40 to 80 Mounting Type: Through Hole Shaft Type: 15mm Rotary Shaft Adjustment Type: Single Turn Length (mm): 20 Width (mm): 17 (Body Diameter) Height (mm): 24 Weight (g): 6 Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	10K Potentiometer • Rotary Pot • Variable Resistor • WH148 Potentiometer • 3-Pin Pot
No Image	EDR-00002-20K0	Potentiometer	ED - Electronic Device	Bourns, Panasonic, Alps Alpine	20K? linear potentiometer designed for adjustable resistance control in electronic circuits, embedded systems, and analog signal applications. It provides smooth variable resistance output for controlling voltage levels, sensor calibration, audio control, and microcontroller analog input tuning.	Resistance Value: 20K? Type: Linear Potentiometer Tolerance: ±10% (typical) Power Rating: 0.1W – 0.5W Rotation Angle: -270°	Rotary Pot • Variable Resistor • potentiometer • 20K ohm pot • linear potentiometer • analog control

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No Image	EDT-00002-A	Light Detecting Resistor Device	ED - Electronic Device	Advanced Photonix, Token Electronics, Excelitas Technologies, Luna Optoelectronics	Light sensitive resistor device used to detect light intensity by changing resistance according to surrounding light conditions.	Operating Voltage: 3.3V – 5V Sensor Type: Light Dependent Resistor Output Type: Analog Resistance Output Resistance Range: 200? – 1M? Response Time:	Light Sensor • analog sensor • LDR sensor • photoresistor • light dependent resistor

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	EMA-00010-A	L298N 2 Channel Motor Driver	EM - Electronic-Electrical Modules	STMicroelectronics, Keyestudio, SparkFun, HiLetgo	The L298N 2 Channel Motor Driver Module is a dual H-Bridge motor control board used to control the speed and direction of two DC motors independently or one stepper motor. It is based on the STMicroelectronics L298N motor driver IC and is commonly used with Arduino, ESP32, Raspberry Pi, and other microcontrollers. The module can handle higher voltage and current compared to direct microcontroller outputs, making it suitable for robotics and automation applications. It includes onboard flyback diodes, a heat sink, and a 5V voltage regulator for stable operation.	Product Type: Dual Motor Driver Module Driver IC: L298N Motor Channels: 2 DC Motors Motor Voltage: 5V – 35V DC Logic Voltage: 5V	DC Motor Driver Board • L298N Motor Driver • L298N 2 Channel Driver • Dual H-Bridge Module
No Image	EMA-00010-C	L293D Motor Driver	EM - Electronic-Electrical Modules	Texas Instruments, STMicroelectronics, SparkFun	The L293D Motor Driver is a dual H-Bridge motor driver IC designed to control the direction and speed of DC motors and stepper motors using microcontrollers like Arduino, ESP32, Raspberry Pi, and PIC controllers. It acts as an interface between low-power control circuits and higher-current motors.	Product Type: Motor Driver IC Driver Type: Dual H-Bridge Motor Channels: 2 DC Motors / 1 Stepper Motor Logic Voltage: 4.5V – 7V Motor Supply Voltage: 4.5V – 36V	Arduino Motor Driver • Stepper Motor Driver • Robot Motor Controller • L293D Motor Driver • L293D IC • Dual H-Bridge Driver • DC Motor Driver IC • L293D Driver Module
No Image	EMA-00010-D	L293D Motor Driver	EM - Electronic-Electrical Modules	Texas Instruments, STMicroelectronics, SparkFun	The L293D Motor Driver is a dual H-Bridge motor driver IC used to control DC motors and stepper motors using microcontrollers like Arduino, ESP32, Raspberry Pi, and PIC controllers. It allows low-power digital circuits to safely control higher-current motors. The IC contains two H-Bridge circuits, enabling independent bidirectional control of two DC motors or one stepper motor. The built-in flyback protection diodes help protect the circuit from voltage spikes generated by motors.	Product Type: Motor Driver IC IC Type: Dual H-Bridge Motor Channels: 2 DC Motors or 1 Stepper Motor Logic Voltage: 4.5V – 7V Motor Voltage: 4.5V – 36V Output Current: 600mA per channel	Arduino Motor Driver • Stepper Motor Driver • Robot Motor Controller • L293D Motor Driver • L293D IC • Dual H-Bridge Driver • DC Motor Driver IC • L293D Driver Module
No Image	EMA-00010-E	L 298 Motor Driver Module	EM - Electronic-Electrical Modules	STMicroelectronics, STMicroelectronics, SparkFun, Keyestudio	The L298 Motor Driver Module (L298N) is a dual H-Bridge motor driver used to control the speed and direction of DC motors and stepper motors. It allows microcontrollers like Arduino, ESP32, and Raspberry Pi to drive motors that require higher current and voltage than the controller can provide directly.	Product Type: Motor Driver Module IC Used: L298N Dual H-Bridge Motor Channels: 2 DC motors or 1 stepper motor Operating Voltage (Logic): 5V Motor Voltage: 5V – 35V DC	L298 Motor Driver • L298N Module • Dual H-Bridge Motor Driver • DC Motor Driver Board • Arduino Motor Driver • Stepper Motor Driver • Robot Motor Controller • L298N H-Bridge Module
No Image	EMC-00002-A	ESP8266 wifi module	EM - Electronic-Electrical Modules	Espressif Systems, Al-Thinker, SparkFun	The ESP8266 WiFi Module is a low-cost microcontroller with built-in WiFi capability used for IoT (Internet of Things) applications. It allows devices to connect to WiFi networks and communicate with servers, cloud platforms, or mobile apps.	Product Type: WiFi Microcontroller Module Core Chip: ESP8266EX CPU: 32-bit Tensilica L106 Operating Voltage: 3.3V	ESP8266 WiFi Module • ESP8266 NodeMCU • ESP8266 ESP-01 • WiFi IoT Module • Arduino WiFi Module • ESP8266 Wireless Module • ESP8266 ESP-12E • ESP8266 IoT Board
No Image	EMS-00001-A	MQ-2 sensor	EM - Electronic-Electrical Modules	Hanwei Electronics Group Corporation, Zhengzhou Winsen Electronics Technology Co., Ltd.	The MQ-2 Gas Sensor Module detects combustible gases such as LPG, methane, hydrogen, alcohol vapor, and smoke. It uses a SnO ₂ sensing element and provides both analog and digital outputs with adjustable sensitivity. Ideal for gas leakage detection, safety systems, and Arduino-based environmental monitoring projects.	Sensor Model: MQ-2 Detection Range: 300 – 10,000 ppm Detectable Gases: LPG, Butane, Propane, Methane (CH ₄), Hydrogen (H ₂), Alcohol, Smoke, CO Sensing Material: Tin Dioxide (SnO ₂) Operating Voltage: 5V DC Digital Output Voltage: 0V or 5V (TTL Logic) Analog Output: Yes Sensitivity Adjustment: Onboard Potentiometer Preheat Time: 20 seconds (minimum) Dimensions (mm): 36 × 20 × 21 Weight (g): 8 Shipping Weight: 0.012 kg Shipping Dimensions (cm): 4 × 4 × 4	Arduino Compatible • MQ-2 Sensor • LPG Gas Sensor • Smoke Detector • SnO ₂ Sensor • Combustible Gas Module • 5V Gas Sensor • Gas Leakage Detector

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No Image	EMS-00002-A	DHT11 Temperature and Humidity Sensor	EM - Electronic-Electrical Modules	EM Series / Generic Compatible, KEYESTUDIO, SunFounder, DFRobot	Digital temperature and humidity sensor module with calibrated single-wire serial output. Features onboard pull-up resistor and LED status indicator for easy interfacing. Ideal for weather stations, environmental monitoring, and smart automation projects.	Item Type: Sensor Model: DHT11 Temperature and Humidity Sensor Measuring Temperature Range (°C): 0 – 50 Temperature Accuracy: ± 2 °C Humidity Range: 20 – 95 % RH Humidity Accuracy: ± 5 % RH Resolution: 16 bit Output Form: Digital Output (Single Wire Serial) Operating Voltage (VDC): 3 – 5 Operating Current (mA): ? 2.5 Dimensions (L x W x H mm): 31 x 14 x 7.5 Weight (g): 5 Shipping Weight: 0.01 kg Shipping Dimensions (L x W x H cm): 5 x 5 x 2	DHT11 • Temperature Sensor • Humidity Sensor • Digital Temp Sensor • Arduino Climate Sensor
No Image	EMS-00003-A	Accelerometer module GY 521	EM - Electronic-Electrical Modules	InvenSense, Generic Electronics, DFRobot, SparkFun Electronics	The GY-521 Accelerometer Module is a 6-axis motion tracking sensor board based on the MPU6050 MEMS sensor IC. It combines a 3-axis accelerometer and a 3-axis gyroscope in a single compact module, allowing accurate measurement of acceleration, tilt, rotation, vibration, and motion.	Product Type: Accelerometer + Gyroscope Module Model: GY-521 Main IC: MPU6050 Communication: I2C Operating Voltage: 3V – 5V DC	GY-521 Accelerometer Module • MPU6050 Sensor Module • 6DOF Motion Sensor • Gyroscope Accelerometer Module
No Image	EMS-00007-A	Temperature sensor Module - DS18B20	EM - Electronic-Electrical Modules	Maxim Integrated, DFRobot, SparkFun	The DS18B20 Temperature Sensor Module is a digital temperature sensing device designed for accurate temperature measurement using the 1-Wire communication protocol. Developed by Dallas Semiconductor (now Maxim Integrated), the DS18B20 provides calibrated digital temperature readings with high accuracy and supports multiple sensors on a single data line.	Product Type: Digital Temperature Sensor Model: DS18B20 Communication Protocol: 1-Wire Operating Voltage: 3V – 5.5V DC Temperature Range: -55°C to +125°C Accuracy: ±0.5°C	DS18B20 Temperature Sensor • Waterproof Temperature Sensor • Digital Temperature Sensor • One Wire Temperature Sensor
No Image	EMS-00010-A	MQ-2 Gas Sensor Module- Methane, Butane, LPG, Smoke	EM - Electronic-Electrical Modules	Hanwei Electronics, Winsen Electronics, SparkFun Electronics, DFRobot	The MQ-2 Gas Sensor Module is a semiconductor-based gas detection sensor designed to detect combustible and flammable gases such as Methane, Butane, LPG, Propane, Hydrogen, Alcohol, and Smoke. It uses a tin dioxide (SnO ₂) sensing layer whose resistance changes when exposed to combustible gases.	Product Type: Gas & Smoke Sensor Model: MQ-2 Detectable Gases: LPG, Methane, Butane, Smoke Detection Range: 200 – 10000 ppm Operating Voltage: 5V DC	LPG Gas Sensor • methane sensor • Arduino Gas Sensor • MQ-2 Gas Sensor • Smoke Sensor Module • Butane Gas Detector • MQ2 Smoke Detector • Flammable Gas Sensor
No Image	EMS-00012-A	Color Sensor	EM - Electronic-Electrical Modules	ams-OSRAM, ams-OSRAM, Generic Electronics	The TCS3200 Color Sensor Module is an RGB color detection sensor designed to identify and measure colors using red, green, and blue filtered photodiodes. The module uses the TCS3200/TCS230 light-to-frequency converter IC to convert light intensity into frequency signals readable by microcontrollers.	Product Type: RGB Color Sensor Model: TCS3200 / TCS230 Sensor Type: Light-to-Frequency Converter Operating Voltage: 2.7V – 5.5V DC	Arduino Color Sensor • Color Detection Module • TCS3200 Color Sensor • RGB Color Sensor • TCS230 Sensor • RGB Recognition Module • ESP32 Color Sensor • Light Frequency Sensor
No Image	EMS-00012-B	Color Sensor	EM - Electronic-Electrical Modules	ams-OSRAM, ams-OSRAM, Generic Electronics	The TCS3200 Color Sensor Module is an RGB color recognition sensor used to detect and measure colors based on reflected light intensity. It uses the TCS3200/TCS230 light-to-frequency converter IC along with photodiodes and onboard white LEDs for accurate color detection.	Product Type: RGB Color Sensor Model: TCS3200 / TCS34725 Sensor Type: Light-to-Frequency Converter Operating Voltage: 2.7V – 5.5V DC	TCS3200 Sensor • RGB Sensor • Color Sensor • TCS230 Module • Arduino Color Sensor • ESP32 RGB Sensor • Color Detection Module
No Image	EMS-00015-A	Touch keyboard TTP229 16 keys capacitive	EM - Electronic-Electrical Modules	Tontek Design Technology, Robocraze, Keyestudio	The TTP229 16-Key Capacitive Touch Keyboard is a touch-sensitive input module based on the TTP229 capacitive sensing IC. Unlike traditional membrane or mechanical keypads, this module detects finger touch using capacitive sensing technology, providing silent, durable, and highly responsive operation.	Product Type: Capacitive Touch Keypad IC Used: TTP229 Number of Keys: 16 Key Layout: 4x4 Operating Voltage: 2.4V – 5.5V DC	TTP229 Touch Keypad • 16-Key Capacitive Keyboard • 4x4 Touch Sensor Module • Arduino/ESP32 Touch Input Module

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No Image	EMS-00020-A	Joystick Module	EM - Electronic-Electrical Modules	EM Series / Generic Compatible, KEYESTUDIO, SunFounder, DFRobot	Dual-axis analog joystick module used to detect X and Y movement positions. Each axis uses a 10K Ω ; potentiometer providing 0–5V analog output. Includes built-in push-button switch, ideal for robotics, gaming, and motion control projects.	Model: PS2 Joystick Module Operating Voltage (VDC): 5 Potentiometer Resistance: 10K Ω (per axis) X/Y Output: Analog (0‐5V) Button: Digital (Press-Down) Interface Type: 2.54 mm Pin Header PCB Size (mm): 34 x 32 Compatibility: Arduino / Raspberry Pi / Microcontrollers Lifespan: Long-Life, High-Stability Potentiometers Shipping Weight: 0.015 kg Shipping Dimensions (L x W x H): 6 x 5 x 4 cm	PS2 Joystick • Analog Joystick Module • Dual Axis Sensor • 10K Potentiometer Joystick • Arduino Joystick
No Image	EMS-00021-A	SW-520D Tilt Sensor	EM - Electronic-Electrical Modules	Generic Electronics, DFRobot, SparkFun, Keyestudio	The SW-520D Tilt Sensor Module is a simple digital angle detection sensor used to detect tilt, orientation change, vibration, or motion. It works using a metal ball inside a cylindrical switch that moves when the angle changes. When tilted beyond a certain threshold (around \sim 10 $^{\circ}$ ‐15 $^{\circ}$ depending on mounting), the internal contacts connect/disconnect and the module outputs a digital HIGH/LOW signal. It is widely used in security alarms, anti-theft systems, robotics balance detection, and Arduino/ESP32 projects.	Product Type: Tilt / Angle Sensor Module Sensor Type: Ball Switch (SW-520D) Output Type: Digital (0 / 1) Operating Voltage: 3.3V ‐ 5V DC Comparator IC: LM393	SW-520D Sensor • Tilt Sensor Module • Angle Sensor • Ball Switch Sensor • Orientation Sensor • Digital Tilt Switch • Arduino Tilt Sensor
No Image	EMS-00022-A	Analog Piezoelectric Ceramic Vibration Module	EM - Electronic-Electrical Modules	Generic Electronics, DFRobot, SparkFun, Adafruit	The Analog Piezoelectric Ceramic Vibration Module uses a piezoelectric ceramic disc to detect vibrations, knocks, and mechanical stress. When the surface is bent, tapped, or vibrated, the ceramic element generates a proportional voltage (piezoelectric effect). Unlike digital vibration modules (like SW-420), this module provides analog output, meaning it can measure the strength of vibration, not just ON/OFF detection. It is widely used in Arduino projects, touch sensing, drum pads, impact detection, and condition monitoring systems.	Product Type: Analog Vibration Sensor Module Sensing Element: Piezoelectric Ceramic Disc Output Type: Analog Voltage Output Operating Voltage: 3.3V ‐ 5V DC Operating Current: < 1 mA	Shock Sensor • Piezo Vibration Sensor • Analog Piezo Module • Ceramic Vibration Sensor • Knock Sensor • Arduino Piezo Sensor • Vibration Detection Module

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	EMS-00023-A	SW-420 Alarm Vibration Sensor Module	EM - Electronic-Electrical Modules	Generic Electronics, DFRobot, SparkFun, FlyRobo	SW-420 Alarm Vibration Sensor Module is a vibration and shock detection module used in security alarms, anti-theft systems, motion sensing, robotics, earthquake detection, and Arduino projects. It uses the SW-420 vibration switch along with an LM393 comparator to provide digital output when vibration or movement is detected. Sensitivity can be adjusted using the onboard potentiometer. (components101.com)	Product Type: Vibration Sensor Module Sensor Model: SW-420 Comparator IC: LM393 Operating Voltage: 3.3V – 5V DC Output Type: Digital Output	LM393 Sensor • SW-420 Sensor • Vibration Sensor Module • Shock Sensor • Alarm Sensor • Motion Detection Sensor • Arduino Vibration Sensor
No Image	EMS-00024-A	Rain Sensor Module	EM - Electronic-Electrical Modules	Generic Electronics, DFRobot, SparkFun	Rain Sensor Modules are used to detect rain, water droplets, moisture, and rainfall intensity in weather monitoring systems, smart irrigation, automatic wiper systems, robotics, and Arduino projects. Most modules use a rain-sensitive conductive plate with an LM393 comparator module and provide both analog and digital outputs.	Product Type: Rain Detection Sensor Module Operating Voltage: 3.3V – 5V DC Comparator IC: LM393 Sensitivity Adjustment: Potentiometer Compatible Boards: Arduino, ESP32, Raspberry Pi	Rain Sensor Module • Rain Drop Sensor • FC-37 Sensor • YL-83 Rain Module • Water Detection Sensor • Arduino Rain Sensor • Weather Sensor
No Image	EMS-00025-A	Encoder Sensor Module	EM - Electronic-Electrical Modules	Broadcom, Generic Electronics, Omron, AMS	Encoder Sensor Modules are used to detect rotation, speed, direction, and position in robotics, automation, motor control, CNC machines, smart vehicles, and Arduino projects. Common encoder modules include rotary encoders (KY-040), optical encoder sensors (MOC7811), and magnetic encoder modules. These modules provide digital pulse outputs for precise motion tracking.	Product Type: Encoder Sensor Module Encoder Type: Rotary / Optical / Magnetic Operating Voltage: 3.3V – 5V DC Output Type: Digital Pulse	Encoder Sensor Module • Rotary Encoder Module • Optical Encoder Sensor • Speed Sensor • Position Sensor • KY-040 Encoder • Arduino Encoder
No Image	EMS-00026-A	HMC5883L Triple Axis Compass Magnetometer Sensor Module	EM - Electronic-Electrical Modules	Honeywell, ITEAD Studio, DFRobot, Adafruit, SparkFun	HMC5883L Triple Axis Compass Magnetometer Sensor Module is a 3-axis digital compass sensor used for navigation, heading detection, robotics, drones, GPS systems, and Arduino projects. The module communicates through the I2C interface and measures magnetic field strength across X, Y, and Z axes for accurate compass heading and orientation detection.	Product Type: Triple Axis Magnetometer Sensor Model: HMC5883L Number of Axes: 3 Axis Communication Interface: I2C Operating Voltage: 3.3V – 5V ADC Resolution: 12-bit	HMC5883L Sensor • Magnetometer Module • Compass Sensor • Triple Axis Compass • GY-271 Sensor • GY-273 Module • Arduino Compass Sensor
No Image	EMX-00002-A	Arduino nano	EM - Electronic-Electrical Modules	Arduino, Gravitech, RobotDyn, Keyestudio, DFRobot	The Arduino Nano is a small, complete, and breadboard-friendly board based on the ATmega328 (Arduino Nano 3.x) or ATmega168 (Arduino Nano 2.x). It has more or less the same functionality as the Arduino Duemilanove but in a different package. It lacks only a DC power jack and works with a Mini-B USB cable instead of a standard one.	Microcontroller: ATmega328 Flash Memory: 32 KB (ATmega328) of which 2 KB used by bootloader SRAM: 1 KB or 2KB EEPROM: 512 bytes (ATmega168) or 1 KB (ATmega328) Clock Speed: 16 MHz Digital I/O Pins: 14 (of which 6 provide PWM output) Analog Input Pins: 8 DC Current per I/O Pin: 40 mA Operating Voltage: 5V Input Voltage: 7 - 12 V (5V model)	ATmega328P • Arduino Nano • Microcontroller Board • Development Board • IoT
No Image	EQE-00002-A	Digital Multimeter	EQ - Equipment/Instrument	Generic / OEM, YX-360, Mastech, Victor, Pro'sKit	This compact digital multimeter is designed for day-to-day electrical testing needs. It is suitable for basic continuity checks, voltage measurements, and current testing. A multimeter (Volt-Ohm Meter or VOM) is a multifunction measuring instrument that combines voltage, current, and resistance measurement in one unit. Digital multimeters (DMM) display measured values numerically on an LCD screen. This device supports testing of AC/DC voltage, DC current, resistance, diode, buzzer continuity, transistor hFE, battery testing, and square wave output. Ideal for students, DIY users, lab use, and technicians.	Item Type: Multimeter Model Type: Digital Multimeter (DT830D Type) Probe Length: 60 cm Length: 120 mm Width: 70 mm Height: 27 mm Weight: 160 g Shipping Weight: 0.18 kg Shipping Dimensions: 15 x 8 x 3.5 cm	DT830D • Digital Multimeter • AC/DC Tester • LCD Display • VOM
No Image	MMB-00002-A	Storage box, big	MM - Mechanical Module	Stanley, Pro'sKit, Tactix, Deli	Large 8-compartment storage boxes are used for organizing electronic components, motors, sensors, screws, tools, wires, connectors, Arduino accessories, and DIY hardware. These organizer boxes typically feature durable plastic construction with transparent lids and removable dividers for flexible storage.	Product Type: Compartment Storage Box Number of Compartments: 8 Material: Plastic / Polypropylene Box Type: Large Organizer Box Storage Items: Sensors, Screws, Components	Storage Box • Component Storage Box • Parts Organizer • DIY Storage • 8 Compartment Box • Large Organizer Box • Hardware Organizer
No Image	MMB-00002-B	Storage box	MM - Mechanical Module	Stanley, Pro'sKit, Tactix, Deli	Small 6-compartment storage boxes are compact organizers used for storing electronic components, resistors, LEDs, screws, nuts, jumpers, ICs, connectors, beads, and DIY hardware. These boxes are lightweight, portable, and commonly used in electronics labs, workshops, and hobby projects.	Product Type: Compartment Storage Box Number of Compartments: 6 Material: Plastic / Polypropylene Box Type: Small Organizer Box Storage Items: Screws, LEDs, ICs	Storage Box • Organizer Box • 6 Compartment Box • Small Parts Box • Component Storage • Electronics Organizer • DIY Storage

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	MMB-00002-C	Storage box	MM - Mechanical Module	Stanley, Pro'sKit, Tactix, Deii	Thin 20-compartment storage boxes are used for organizing electronic components, screws, nuts, resistors, ICs, beads, connectors, small tools, and DIY hardware. These lightweight organizers usually feature transparent lids and removable dividers for easy sorting and visibility.	Product Type: Compartment Storage Box Number of Compartments: 20 Material: Transparent Plastic / PP Box Type: Thin Organizer Box Storage Items: Screws, ICs, Components	Storage Box • 20 Compartment Box • Organizer Box • Component Storage Box • Parts Organizer • Electronics Storage • DIY Organizer
No Image	MMD-00001-B	BO2 Side Shaft Plastic Gear Motor	MM - Mechanical Module	Generic Robotics, Robu.in, FlyRobo, DFRobot, Keyestudio	BO2 Side Shaft Plastic Gear Motor is a lightweight DC geared motor commonly used in robotics, smart car projects, line follower robots, obstacle avoidance robots, STEM kits, and Arduino DIY projects. It features a plastic gearbox with dual side shafts for easy wheel mounting and provides low-speed high-torque operation.	Product Type: Plastic Geared DC Motor Motor Type: BO2 Side Shaft Motor Operating Voltage: 3V – 12V DC Rated Voltage: 6V DC Speed Range: 60RPM – 300RPM	Arduino Motor • BO Motor • DC Gear Motor • BO2 Gear Motor • Plastic Gear Motor • Side Shaft Motor • Robot Motor
No Image	MMD-00002-A	Metal Gear Servo Motor	MM - Mechanical Module	TowerPro, DFRobot, Adafruit, SparkFun, Robocraze	MG995 360° High Speed Torque Metal Gear Servo is a continuous rotation high-torque servo motor widely used in robotics, RC vehicles, robotic arms, automation systems, smart wheels, and Arduino projects. It features metal gears, PWM control, high holding torque, and durable construction for demanding applications.	Product Type: Digital Servo Motor Model: MG995 Rotation Type: 360° Continuous Rotation Operating Voltage: 4.8V – 7.2V DC Stall Torque: 9kg-cm – 13kg-cm	Arduino Servo • Digital Servo Motor • Metal Gear Servo • High Torque Servo • Robotics Servo • MG995 Servo • 360° Servo Motor
No Image	MMD-00002-B	Servo Motor	MM - Mechanical Module	TowerPro, MWDuino Compatible, Generic	Compact 9g micro servo motor with 180° rotation for precise angular control. Delivers 1.2–1.6 kg&middlecm torque with fast response speed for robotics and RC applications. Compatible with Arduino and microcontrollers using standard PWM control.	Item Type: TowerPro Servo Motor Model Series: SG Series Model No.: SG90 Rotation (Degree): 180° Torque Rating (kg-cm): 1.2 to 1.6 Operating Voltage (VDC): 3.0 – 7.2 Operating Speed @ 4.8V: 0.10 sec/60° Stall Torque @ 4.8V (kg-cm): 1.2 Stall Torque @ 6.6V (kg-cm): 1.6 Operating Temperature (°C): -30 to 60 Gear Type: Glass Fiber Servo Plug Type: JR Cable Length (cm): 25 Length (mm): 22.8 Width (mm): 12.6 Height (mm): 34.5 Weight (g): 9 Shipping Weight: 0.014 kg Shipping Dimensions (L x W x H): 8 x 6 x 4 cm	SG90 Servo • 9g Servo Motor • Micro Servo • RC Servo • Arduino Servo
No Image	MMD-00002-C	Metal Gear Micro Servo	MM - Mechanical Module	TowerPro, DFRobot, Adafruit, SparkFun, Waveshare	MG90S Metal Gear Micro Servo is a compact high-torque micro servo motor designed for robotics, RC cars, robotic arms, pan-tilt systems, drones, and Arduino projects. It uses metal gears for improved durability and better torque compared to SG90 plastic gear servos. Typical operating voltage is 4.8V–6V with around 180° rotation.	Product Type: Metal Gear Micro Servo Model: MG90S Operating Voltage: 4.8V – 6V DC Rotation Angle: 180° Stall Torque: 1.8kg-cm – 2.2kg-cm	Arduino Servo • Metal Gear Servo • High Torque Servo • Robotics Servo • MG90S Servo • Micro Servo Motor • PWM Servo
No Image	MMD-00002-D	Digital Servo Motor 360 Degree	MM - Mechanical Module	TowerPro, Probots, DFRobot, Adafruit, SparkFun	MG996R Digital Servo Motor 360 Degree is a high-torque continuous rotation servo motor widely used in robotics, robotic arms, RC vehicles, automation systems, pan-tilt mechanisms, and Arduino projects. It features metal gears, PWM control, and continuous 360° rotation capability.	Product Type: Digital Servo Motor Model: MG996R Rotation Type: 360° Continuous Rotation Operating Voltage: 4.8V – 7.2V DC Rated Voltage: 6V DC Stall Torque: 10kg-cm – 13kg-cm	Arduino Servo • MG996R Servo • 360 Degree Servo • Digital Servo Motor • Metal Gear Servo • High Torque Servo • Robotics Servo
No Image	MMD-00006-A	Small Reduction Stepper Motor - 5VDC 32-Step 1/16 Gearing	MM - Mechanical Module	Adafruit, Songle Motor, Generic Stepper Motors, SunFounder	The Small Reduction Stepper Motor – 5VDC 32-Step 1/16 Gearing is commonly known as the 28BYJ-48 stepper motor. It is a compact geared unipolar stepper motor widely used in Arduino projects, robotics, automation systems, camera sliders, smart locks, and educational electronics. The internal reduction gearbox provides higher torque and precise low-speed rotation.	Product Type: Geared Stepper Motor Model: 28BYJ-48 Operating Voltage: 5V DC Gear Reduction Ratio: 1/64 Steps Per Revolution: 2048 Steps	Arduino Motor • 5V Stepper Motor • Reduction Stepper Motor • 28BYJ-48 • Geared Stepper Motor • Mini Stepper Motor • DIY Robotics Motor
No Image	MMP-00002-A	Nuts	MM - Mechanical Module	Unbrako, TVS Fasteners, Bossard, RS PRO	Nuts are threaded fastening components used with bolts and screws for securing mechanical assemblies, PCB mounting, robotics, enclosures, 3D printing, and DIY electronics projects. Common types include hex nuts, lock nuts, nylon nuts, and flange nuts.	Product Type: Hex Nut Nut Size: M3 Compatible With: M3 Screws & Bolts	DIY Hardware • Hex Nut • M3 Nut • Lock Nut • Machine Nut • Fastener Nut • Mounting Hardware
No Image	TLC-00002-A	Knife (Paper Cutter)	TL - Tools	Stanley	Stanley Retractable Knife is a versatile, durable cutting tool for paper, cardboard, and general DIY tasks. Features a retractable blade mechanism for safe storage and precise cutting. Ideal for home, office, or workshop use, combining safety and reliability.	Manufacturer: Stanley Item Type: Retractable Knife Color: Silver/Yellow Overall Dimensions: 20.5 x 7.6 x 2.2 cm Material: Acrylonitrile Butadiene Styrene (ABS) Blade Material: Stainless Steel Shipping Weight: 0.04 kg Shipping Dimensions (L x W x H): 21 x 8 x 2 cm	Stanley Knife • Retractable Knife • Paper Cutter • DIY Tool • Packaging Tool

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	TLK-00002-A	Hot Pro'sKit 8PK-2061 6PCS Precision Screwdriver Set Cross Screwdriver	TL - Tools	Pro'sKit, Jakemy, Stanley, Bosch	Pro'sKit 8PK-2061 is a 6-piece precision screwdriver set designed for electronics repair, PCB work, mobile repair, watches, laptops, and precision DIY applications. It includes cross and slotted precision screwdrivers with ergonomic anti-slip handles and hardened steel tips.	Product Type: Precision Screwdriver Set Number of Pieces: 6 pcs Screwdriver Type: Cross & Slotted Usage: Mobile, Laptop, DIY Repair	DIY Tool • Electronics Repair Tool • Precision Screwdriver Set • Cross Screwdriver • Phillips Screwdriver • Mini Screwdriver Set
No Image	TLM-00002-A	Wire Cutter	TL - Tools	Generic / OEM, Pro'sKit, Stanley, Taparia, Knipex	Diagonal wire cutter designed for clean and precise cutting of electrical wires and soft metals. Features ergonomic non-slip grip handles and a spring-loaded mechanism to reduce hand fatigue during extended use. Features ergonomic non-slip grip handles and a spring-loaded mechanism to reduce hand fatigue during extended use.	Item Type: Diagonal Wire Cutter Material: High-Carbon Steel Blade with ABS Handle Color: Blue Length (mm): 185 Width (mm): 95 Height (mm): 15 Weight: 60 g Shipping Weight: 0.062 kg Shipping Dimensions: 19 x 10 x 2 cm	Diagonal Cutter • Wire Cutter • Cutting Pliers • Side Cutter • Electrical Tool
No Image	TLP-00002-A	Soldering Iron Kit	TL - Tools	TLP Series / Generic Compatible, Noel, Pro'sKit, Velleman	Be it beginner, hobbyist, or professional, soldering iron kits are essential tools for building circuit boards, repairing electronics, jewelry making, welding, and other precision tasks. This kit combines the basic tools used in general-purpose soldering work and includes necessary components required for soldering at your work desk. Best suited for DIY beginners, college project teams, and professional electronics hobbyists.	Item Type: Kit Soldering Iron Power: 25 Watt Suitable For: Beginner to Professional Shipping Weight: 0.4 kg Shipping Dimensions: 20 x 7 x 6 cm	Soldering Kit • 25W Soldering Iron • 3-in-1 Kit • DIY Soldering Set • Electronics Repair Kit
No Image	TLP-00004-A	Bosch GSB 120-LI Professional Cordless Impact Drill	TL - Tools	Bosch, Robert Bosch GmbH	The Bosch GSB 120-LI Professional is a compact cordless impact drill designed for drilling and screwdriving applications in wood, metal, and masonry. It features a 12V lithium-ion battery system, variable speed control, reverse rotation, and impact drilling capability suitable for professional and DIY use.	Voltage: 12V Battery Type: Lithium-Ion No Load Speed: 0-400 / 0-1500 RPM Chuck Capacity: 10 mm Max Torque: 30 Nm Impact Rate: Up to 22,500 BPM	DIY Tool • Cordless Drill • Impact Drill • 12V Drill • Power Tool • Electric Drill • Professional Drill • Bosch Tool