

Parts Export

Generated: 2026-06-10 11:44:54

Total Parts: 57

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
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	COC-00003-A	Hot Glue stickS	CO - Consumables	Stanley, Surebonder	Thermoplastic adhesive glue sticks designed for hot glue guns used in crafting, electronics assembly, packaging, DIY projects, and repair applications. These glue sticks provide strong bonding, fast melting, and reliable adhesion on plastic, paper, wood, fabric, and lightweight materials.	Glue Stick Diameter: 7mm Melting Temperature: 120°C – 180°C Compatibility: 7mm Mini Glue Guns Stick Length: 100mm – 300mm	Hot Melt Adhesive • hot glue stick • glue gun stick • adhesive stick • 7mm glue stick • craft glue
No Image	COC-00003-B	Hot Melt Glue Sticks	CO - Consumables	Generic / OEM, 3M, Pro'sKit, Stanley, Bosch	All-purpose hot melt glue sticks suitable for bonding applications in DIY, electronics, crafts, packaging, and general repairs. Designed for use with standard temperature glue guns operating around 200°C and compatible with 11mm diameter glue stick slots. Provides strong adhesion on plastic, wood, fabric, paper, and light materials.	Item Type: Hot Melt Glue Sticks Stick Diameter: 11 mm Pack Quantity: 5 Pieces Shipping Weight: 0.2 kg Shipping Dimensions: 4 x 4 x 4 cm	Glue Sticks • 11mm Glue Stick • Hot Melt Adhesive • Glue Gun Refill • DIY Adhesive
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
No Image	COE-00003-A	Hook up wire	CO - Consumables	Alpha Wire, Belden, Adafruit	Single strand hook up wire designed for electrical connections, breadboard prototyping, PCB wiring, robotics, and embedded electronics applications. It provides reliable conductivity, flexible routing, and durable insulation for low-voltage electronic circuits and power distribution tasks.	Wire Type: Single Strand Hook Up Wire Conductor Material: Copper Wire Gauge: 22AWG – 26AWG Rated Voltage: 300V Temperature Rating: 80°C	Breadboard Wire • Jumper Wire • hook up wire • single core wire • copper wire • PCB wire
No Image	COM-00001-A	3D Filament	CO - Consumables	Creality, eSUN, Hatchbox	High-quality 1.75mm white 3D printing filament designed for FDM/FFF 3D printers used in prototyping, educational models, robotics, product design, and engineering applications. It provides smooth extrusion, reliable layer adhesion, low warping, and consistent print quality for detailed prints and structural models.	Filament Type: PLA / ABS / PETG Filament Diameter: 1.75mm Color: White Spool Weight: 1kg Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • white filament • 1.75mm filament • FDM filament • 3D printer material

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	COM-00001-B	3D Filament	CO - Consumables	Creality, eSUN, Hatchbox	High-quality 1.75mm black 3D printing filament designed for FDM/FFF 3D printers used in prototyping, robotics, engineering models, product design, and fabrication applications. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for detailed and durable prints.	Filament Type: PLA / ABS / PETG Filament Diameter: 1.75mm Color: Black Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • 1.75mm filament • FDM filament • 3D printer material • black filament
No Image	COM-00001-C	3D Filament	CO - Consumables	Creality, eSUN, Hatchbox	High-quality 1.75mm yellow 3D printing filament designed for FDM/FFF 3D printers used in prototyping, educational models, robotics, engineering applications, and creative fabrication projects. It provides smooth extrusion, strong layer adhesion, low warping, and consistent print quality for accurate and durable printed parts.	Filament Type: PLA / ABS / PETG Filament Diameter: 1.75mm Color: Yellow Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • 1.75mm filament • FDM filament • 3D printer material • yellow filament
No Image	COM-00001-D	3D Filament	CO - Consumables	Creality, eSUN, Hatchbox	High-quality 1.75mm blue 3D printing filament designed for FDM/FFF 3D printers used in prototyping, robotics, engineering models, educational projects, and creative 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 industrial product development.	Filament Type: PLA / ABS / PETG Filament Diameter: 1.75mm Color: Blue Printing Temperature: 190°C – 220°C Heated Bed Temperature: 0°C – 60°C	3D filament • PLA filament • 1.75mm filament • FDM filament • 3D printer material • blue filament
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

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No Image	EDD-00003-A	RGB Multi-Color LED Module	ED - Electronic Device	ED Series / XINGLIGHT, XINGLIGHT	5mm common cathode RGB LED with transparent lens for multi-color indication. Combines red and green-yellow emission in a single through-hole package. Ideal for indicator panels, DIY electronics, and visual feedback systems.	Manufacturer: XINGLIGHT Model No.: XL-A524SURSYGC Package: Plugin, D = 5mm Forward Current (mA): 20 Color Temperature: - Peak Wavelength (nm): 640 (Red) 572 (Green: Yellow) Luminous Intensity (mcd): 600 (Red) 550 (Green: Yellow) Lens Color: Colorless Transparent Diode Configuration: Common Cathode Wavelength – Dominant (nm): 635–640 (Red) 565–575 (Green: Yellow) Operating Temperature (°C): -20 ~ +85 Illumination Color: Red, Green-Yellow Viewing Angle: 30° Lamp Holder Type: 5mm Round Head Power (mW): 50 Forward Voltage (Vf): 2.3V (Red) 2.4V (Green: Yellow) Mounting Type: Through Hole Compliance: RoHS	RGB LED • 5mm LED • Common Cathode LED • Indicator LED • Through Hole LED
No Image	EDD-00003-B	RGB Multi-Color LED Module	ED - Electronic Device	Jameco ValuePro, Jameco ValuePro, Adafruit Industries	5mm high-brightness RGB LED with common anode configuration. Emits red, green, and blue light for color mixing and display applications. Ideal for indicators, Arduino projects, decorative lighting, and DIY electronics.	Manufacturer: Generic Model Type: Common Anode RGB LED Package: 5mm Round (Clear Lens) Color: Red, Green, Blue Configuration: Common Anode Brightness: High Current Consumption: Low Operating Voltage: 2.0–3.2V (per color) Forward Current (mA): 20 (per channel) Power Efficiency: High Luminous Output, Low Heat Material: Epoxy Resin, Gold Wire Leads Mounting Type: Through Hole Item Size: 5mm Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm	RGB LED • 5mm LED • Indicator LED • Through Hole LED • Common Anode LED
No Image	EDK-00003-A	transistors	ED - Electronic Device	ON Semiconductor, Fairchild Semiconductor, Toshiba, NXP Semiconductors	TO-92 transistor kit containing multiple commonly used NPN and PNP transistors for switching, amplification, signal processing, and embedded electronics applications. It provides a compact assortment of semiconductor devices suitable for prototyping, Arduino projects, educational electronics, robotics systems, and circuit development work. Commonly used in amplifier circuits, sensor interfacing, motor control, switching applications, and DIY electronics projects.	Package Type: TO-92 Transistor Types: NPN and PNP Operating Voltage: Up to 60V Current Rating: Up to 800mA Current Rating: Up to 800mA	transistor kit • TO-92 transistor • NPN transistor • PNP transistor • semiconductor kit • switching transistor
No Image	EDM-00003-A	(DPDT) Toggle Switch	ED - Electronic Device	C&K, E-Switch, Omron	DPDT (Double Pole Double Throw) toggle switch designed for reversing polarity, signal routing, and multi-circuit control in electronic systems. It allows two separate circuits to be switched between two different output paths, making it ideal for motor direction control, signal switching, and embedded system applications.	Switch Type: DPDT (Double Pole Double Throw) Number of Pins: 6 Pins Rated Voltage: 125V – 250V AC / 12–30V DC Rated Current: 3A – 6A	toggle switch • DPDT switch • 6 pin switch • polarity reversing switch • control switch
No Image	EDR-00001-330Z	Resistor - 330 Ohm	ED - Electronic Device	Yageo, Vishay, KOA Speer, TE Connectivity, Generic	It is a 330 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications.	Series: – Resistance (Ohm): 330 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	EDS-00003-A	Temperature sensor Device	ED - Electronic Device	Maxim Integrated, Dallas Semiconductor, Adafruit, SparkFun	DS18B20 digital temperature sensor device designed for accurate temperature measurement in embedded systems, IoT applications, and electronics projects. It uses a One-Wire communication protocol, allowing multiple sensors to operate on a single data line for simplified wiring.	Sensor Type: Digital Temperature Sensor Communication: One-Wire Interface Operating Voltage: 3.0V – 5.5V Temperature Range: -55°C to +125°C	Temperature Sensor • digital sensor • DS18B20 • one wire sensor • Arduino temperature sensor
No Image	EDT-00003-A	Analog Piezoelectric Ceramic Device	ED - Electronic Device	Murata Manufacturing, SparkFun Electronics, Measurement Specialties, TE Connectivity	Analog piezoelectric ceramic device used for detecting vibration, knock, touch, pressure, and impact signals in embedded electronics and sensing applications.	Operating Voltage: 3.3V – 5V Output Type: Analog Voltage Output Sensor Type: Piezoelectric Ceramic Frequency Range: 1Hz – 10KHz	Knock Sensor • piezoelectric sensor • vibration sensor • analog sensor • ceramic sensor

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	EMA-00002-A	SSD1306 0.96 inch I2C OLED display	EM - Electronic-Electrical Modules	Solomon Systech, SparkFun, DFRobot	The SSD1306 0.96 inch I2C OLED Display is a compact monochrome graphical display module commonly used with Arduino, ESP32, Raspberry Pi, and other microcontrollers. It typically features a 128x64 pixel resolution and uses the SSD1306 OLED driver IC with an I2C communication interface.	Product Type: OLED Display Module Display Size: 0.96 inch Driver IC: SSD1306 Resolution: 128 x 64 Pixels Operating Voltage: 3.3V – 5V DC	SSD1306 OLED Display • 0.96 OLED Module • I2C OLED Display • OLED Screen Module
No Image	EMA-00003-A	Programmable RGB 60 LED strip	EM - Electronic-Electrical Modules	Worldsemi, APA Electronics, Pololu	The Programmable RGB 60 LED Strip is an addressable LED strip containing 60 individually controllable RGB LEDs per meter, commonly based on WS2812B, WS2811, or SK6812 driver ICs. Each LED can display different colors and brightness levels independently, allowing dynamic lighting effects, animations, scrolling patterns, and smart visual displays.	Product Type: Programmable RGB LED Strip LED Type: WS2812B / WS2811 LEDs Per Meter: 60 LED Colors: RGB Full Color Operating Voltage: 5V DC (WS2812B) / 12V (WS2811)	Programmable RGB LED Strip • WS2812B LED Strip • NeoPixel LED Strip • Addressable RGB Strip
No Image	EMA-00003-B	8-Bit RGB NeoPixel LED Module	EM - Electronic-Electrical Modules	Worldsemi Co., Ltd., Generic / OEM	The WS2812B 8-Bit RGB LED Module features 8 individually addressable 5050 RGB LEDs with integrated driver ICs. It operates on 5V and uses a single-wire communication protocol for precise color and brightness control. Ideal for programmable lighting, animations, IoT devices, and Arduino-based creative projects.	LED Model: WS2812B Package Type: 5050 SMD Number of LEDs: 8 Color Type: Full-Color RGB Bit Depth: 8-bit per channel (24-bit RGB total) Operating Voltage: DC 5V Control Interface: Single Data Line (Serial) Communication Protocol: One-Wire Timing Protocol PCB Color: White Mounting Type: Solderless / Plug-and-Play Length (mm): 105 Width (mm): 10 Height (mm): 6 Weight (g): 8 Shipping Weight: 0.01 kg Shipping Dimensions (L x W x H cm): 12 x 8 x 1	Arduino Compatible • WS2812B • NeoPixel Module • 8 LED RGB • 5050 SMD • Addressable LED • 5V RGB Strip • Programmable LED
No Image	EMA-00003-C	CJMCU WS2812 RGB LED Breakout Module (Black)	EM - Electronic-Electrical Modules	Worldsemi, CJMCU, SparkFun Electronics	The CJMCU WS2812 RGB LED Breakout Module (Black) is a compact addressable RGB LED board based on the WS2812B intelligent LED driver IC mounted on a black PCB. Each module contains a full-color RGB LED with an integrated controller, allowing independent control of color and brightness using only a single data pin.	Product Type: Addressable RGB LED Breakout Module LED Type: WS2812B PCB Color: Black LED Colors: Red, Green, Blue (RGB) Operating Voltage: 5V DC	Addressable RGB LED • CJMCU WS2812 Black Module • WS2812 RGB LED Black • NeoPixel Black PCB

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	EMA-00003-D	RGB LED Ring 12x	EM - Electronic-Electrical Modules	Worldsemi, CJMCU, SparkFun	The RGB LED Ring 12x is a circular addressable RGB LED module containing 12 individually controllable WS2812B (NeoPixel-type) LEDs arranged in a ring shape. Each LED includes an integrated driver IC, allowing independent color and brightness control through a single data line.	Product Type: RGB LED Ring Module Number of LEDs: 12 LED Type: WS2812B LED Colors: RGB Full Color Operating Voltage: 5V DC	RGB LED Ring 12x • WS2812 LED Ring • NeoPixel Ring 12 LED • Addressable RGB Ring • 12 Pixel LED Ring
No Image	EMA-00003-E	Coin Cell	EM - Electronic-Electrical Modules	Panasonic, Maxell, Energizer, Sony	The CR2032 3V Lithium Coin Battery is the most commonly used coin battery that provides long-lasting and reliable power for various devices. They are used to power small electronic devices such as a calculator, Wrist Watches, remote controls, Various medical Devices, fitness Gadgets, & Machines, toys, etc. The CR2032 is a 3V coin-type Lithium Battery that comes with a 225 mAh capacity. It has flat top terminals. It is ideally suited for use in all kinds of products where the trend is to achieve increasing miniaturization. Since the manganese dioxide that is chemically very stable is used for the plus terminal as an active material, if preservation conditions are proper, 90% of capacity remains even after ten years of storage. It employs organic electrolytes with minimum creeping so they are vastly superior in terms of leakage resistance under environmental changes.	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	EMA-00003-F	CJMCU WS2812 RGB LED BreakOut Module (Red)	EM - Electronic-Electrical Modules	Worldsemi, CJMCU, SparkFun	The CJMCU WS2812 RGB LED Breakout Module is a compact addressable RGB LED board based on the WS2812 intelligent LED driver IC. Each module contains a full-color RGB LED with an integrated controller, allowing independent color and brightness control using a single data line.	Product Type: Addressable RGB LED Module LED Type: WS2812B LED Colors: Red, Green, Blue (RGB) Operating Voltage: 5V DC	CJMCU WS2812 Module • WS2812 RGB LED • NeoPixel LED Module • Addressable RGB LED • WS2812 Breakout Board
No Image	EMA-00005-A	2x3W Mini digital amplifier board	EM - Electronic-Electrical Modules	Diodes Incorporated, SparkFun	The 2x3W Mini Digital Amplifier Board is a compact stereo Class-D audio amplifier module commonly based on the PAM8403 amplifier IC. It can deliver up to 3W + 3W stereo output using a 5V power supply, making it ideal for portable speakers, DIY audio systems, Bluetooth speakers, and Arduino sound projects.	Product Type: Stereo Audio Amplifier Module Amplifier IC: PAM8403 Amplifier Type: Class-D Output Power: 2 x 3W Operating Voltage: 2.5V - 5.5V DC Recommended Voltage: 5V	PAM8403 Amplifier Board • 2x3W Stereo Amplifier • Mini Digital Amplifier • Class-D Audio Amplifier
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	EMC-00001-A	RF 433/315 MHz Transmitter and Receiver Module Kit	EM - Electronic-Electrical Modules	HopeRF, Wireless Tag	The RF 433/315 MHz Transmitter and Receiver Module Kit is a wireless communication system used to send and receive data over radio frequency. It typically includes an RF transmitter module and an RF receiver module that operate at 433 MHz (or 315 MHz in some variants). The transmitter sends digital signals by modulating radio waves, and the receiver decodes these signals back into data. It is commonly used for short-range wireless communication between microcontrollers like Arduino, ESP8266, ESP32, and other embedded systems.	Product Type: RF Wireless Communication Module Frequency: 433 MHz / 315 MHz Operating Voltage: 3V - 5V DC Data Rate: Up to ~10 kbps (typical) Range: 20m - 100m (depends on antenna & environment)	RF 433MHz Module • 315MHz RF Module • Wireless Transmitter Receiver Kit • RF Communication Module • Arduino RF Module • ASK RF Module • Wireless Remote Module • 433MHz RF Pair Kit

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No Image	EMC-00003-A	NodeMcu	EM - Electronic-Electrical Modules	Espressif Systems, Ai-Thinker, NodeMCU	The ESP8266 NodeMCU CH340 board has ESP8266 which is a highly integrated chip designed for the needs of a new connected world. It offers a complete and self-contained Wi-Fi networking solution, allowing it to either host the application or to offload all Wi-Fi networking functions from another application processor. ESP8266 has powerful on-board processing and storage capabilities that allow it to be integrated with the sensors and other application-specific devices through its GPIOs with minimal development up-front and minimal loading during runtime. Its high degree of on-chip integration allows for minimal external circuitry, and the entire solution, including the front-end module, is designed to occupy minimal PCB area. The ESP-12 Lua NodeMCU WIFI Dev Board Internet Of Things with ESP8266 is an all-in-one microcontroller + WiFi platform that is very easy to use to create projects with WiFi and IoT (Internet of Things) applications.	Processor: L106 32 bit Processor speed: 80MHz to 160MHz Flash memory: 4MB Analog to digital: 1 input with 1024 resolution Maximum concurrent TCP connection: 5 GPIOs: 17 Transfer rate: 110 Kbps to 460800 Kbps Input voltage supply: 4.5V to 9V Communication interface voltage: 3.3V Current consumption: 10uA-170mA	NodeMCU • ESP8266 • WiFi Module • IoT Development Board • ESP8266EX • Wireless Module
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-00003-B	Accelerometer module GY-61 (ADXL335)	EM - Electronic-Electrical Modules	N/A			
No Image	EMS-00003-C	Accelerometer module MMA7361	EM - Electronic-Electrical Modules	Freescale Semiconductor, DFRobot, Elecrow	The MMA7361 Accelerometer Module is a low-power 3-axis analog accelerometer sensor designed to measure acceleration, tilt, vibration, orientation, and motion along X, Y, and Z axes. It is based on the Freescale/NXP MMA7361L MEMS accelerometer IC and provides analog voltage outputs proportional to acceleration values.	Product Type: 3-Axis Accelerometer Module Model: MMA7361L Sensor Type: MEMS Accelerometer Axes: X, Y, Z Operating Voltage: 3.3V – 5V DC	Tilt Sensor Module • MMA7361 Accelerometer • Triple Axis Accelerometer • 3-Axis Accelerometer Module
No Image	EMS-00010-G	MQ135 gas sensor	EM - Electronic-Electrical Modules	Hanwei Electronics, Zhengzhou Winsen Electronics, Futurlec	The MQ 135 Air Quality Detector Sensor Module For Arduino has lower conductivity in clean air. When the target combustible gas exists, the conductivity of the sensor is higher along with the gas concentration rising. Convert change of conductivity to the corresponding output signal of gas concentration. The MQ135 gas sensor has a high sensitivity to Ammonia, Sulphide, and Benzene steam, also sensitive to smoke and other harmful gases. It is at low cost and suitable for different applications such as harmful gases/smoke detection.	Model: MQ-135 Detecting range: 100ppm to 1000ppm Operating current: 150 mA Operating Voltage: 5 V Length: 3.2 cm Height: 2.7 cm Width: 2 cm	Air Quality Sensor • MQ135 • Ammonia Sensor • NOx Sensor • CO2 Sensor • Smoke Sensor
No Image	EMS-00013-A	Infrared Obstacle Avoidance IR Sensor Module	EM - Electronic-Electrical Modules	Generic OEM Manufacturer, Keyestudio, HiLetgo, Elegoo, SunFounder	The Infrared Obstacle Avoidance Sensor Module detects nearby objects using reflected infrared light. It uses an IR transmitter–receiver pair with an LM393 comparator to provide a digital active LOW output when an obstacle is detected. Ideal for robotics, smart cars, automation systems, and Arduino-based proximity detection projects.	Sensor Type: Infrared Reflective Obstacle Sensor Operating Voltage: 3.6V - 5V DC Output Type: Digital (Active Low) Main IC: LM393 Comparator Average Current Consumption: 0.06 mA Detection Angle: 35° Detection Distance: 2 cm – 30 cm (adjustable) Interface Pins: VCC, GND, OUT Indicator LED: Yes (Obstacle Detection Indicator) Sensitivity Adjustment: Onboard Potentiometer Dimensions (mm): 48 x 14 x 8 Weight (g): 5 Shipping Weight: 0.01 kg Shipping Dimensions (cm): 5 x 4 x 1	IR Obstacle Sensor • Infrared Reflective Module • LM393 Comparator • Active Low Output • Proximity Sensor • Arduino Compatible • Robot Sensor

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No Image	EMS-00015-B	3x4 Membrane switch keypad	EM - Electronic-Electrical Modules	Adafruit, DFRobot, SparkFun, Keyestudio	The 3x4 12-Key Membrane Switch Keypad is a compact matrix-style input device commonly used in Arduino, ESP32, Raspberry Pi, PIC, AVR, and embedded electronics projects. It contains 12 push buttons arranged in a telephone-style 4-row x 3-column matrix layout.	Product Type: Membrane Matrix Keypad Key Layout: 3x4 Matrix Number of Keys: 12 Operating Voltage: 3V – 35V DC Connector Type: 7-pin Header	12 Key Matrix Keypad • Membrane Switch Keypad • Arduino Keypad • 3x4 Membrane Keypad • Numeric Keypad Module • 4x3 Matrix Keyboard • Telephone Style Keypad • Matrix Input Module
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-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-00003-A	Arduino Mega	EM - Electronic-Electrical Modules	Arduino, Elegoo, RobotDyn, Keyestudio, DFRobot, Waveshare	The Arduino Mega is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 14 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with an AC-to-DC adapter or battery to get started. The Mega is compatible with most shields designed for the Arduino Duemilanove or Diecimila. The Mega 2560 R3 also adds SDA and SCL pins next to the AREF. In addition, there are two new pins placed near the RESET pin. One is the IOREF that allow the shields to adapt to the voltage provided by the board. The other is not connected and is reserved for future purposes. The Mega 2560 R3 works with all existing shields but can adapt to new shields that use these additional pins. Arduino is an open-source physical computing platform based on a simple i/o board and a development environment that implements the Processing/Wiring language. Arduino can be used to develop stand-alone interactive objects or can be connected to software on your computer (e.g. Flash, Processing, MaxMSP). The open-source IDE can be downloaded for free (currently for Mac OS X, Windows, and Linux).	Microcontroller Chip: ATmega2560 Analog I/O Pins: 16 Digital I/O Pins: 54 (of which 14 provide PWM output) Flash Memory: 256 KB of which 8 KB used by bootloader SRAM: 8 KB EEPROM: 4 KB DC Current per I/O Pin: 40 mA DC Current for 3.3V Pin: DC Current for 3.3V Pin Operating Voltage: 5V Input Voltage: 7V to 12V Input Voltage (limit): 6V-20V	Development Board • Arduino Mega • ATmega2560 • Embedded Systems • IoT Board
No Image	EQM-00001-A	3D Printer	EQ - Equipment/Instrument	Tiertime Official Website, Cetus 3D Official Website, UP3D / Tiertime, Tiertime Europe	The Cetus MK3 is a compact FDM/FFF 3D printer developed by Tiertime for education, prototyping, STEM labs, hobby projects, and desktop manufacturing. It supports multiple nozzle sizes, Wi-Fi connectivity, touchscreen operation, and modular upgrades. The printer is known for compact size, reliable print quality, and support for PLA, PETG, TPU, and other materials.	Product Type: FDM / FFF 3D Printer Model: Cetus MK3 Printing Technology: MEM / FDM Build Volume: 180 x 180 x 180 mm Layer Resolution: 50 – 350 Micron Nozzle Sizes: 0.2 / 0.4 / 0.6 mm Filament Diameter: 1.75 mm	FDM Printer • Educational 3D Printer • Cetus MK3 • Cetus 3D Printer • DIY 3D Printer • Compact 3D Printer • Tiertime Printer
No Image	EQM-00001-B	3D Printer	EQ - Equipment/Instrument	FlashForge USA, Inventor Technologies, Robotbanao	The FlashForge Adventurer 3C is a compact FDM 3D printer designed for educational use, prototyping, STEM labs, hobby projects, and home manufacturing. It features automatic bed leveling support, a removable heated build plate, enclosed printing chamber, Wi-Fi connectivity, touchscreen control, and easy nozzle replacement. It is suitable for PLA, ABS, and PETG filament printing.	Product Type: FDM 3D Printer Model: Adventurer 3C Printing Technology: FDM (Fused Deposition Modeling) Build Volume: 150 x 150 x 150 mm Nozzle Diameter: 0.4 mm Max Nozzle Temperature: 240°C Filament Diameter: 1.75 mm	3D Printer • FlashForge Printer • Adventurer 3C • FDM Printer • DIY Printer • STEM Printer • Educational 3D Printer

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
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-00003-A	Micro gear motor	MM - Mechanical Module	Pololu, DFRobot, Adafruit, SparkFun	N20 micro gear motors are compact DC geared motors widely used in robotics, smart cars, line follower robots, automation systems, mini conveyor mechanisms, and DIY electronics projects. These motors combine a small DC motor with a metal gearbox to provide low speed and high torque in a compact form factor.	Product Type: Micro Gear Motor Operating Voltage: 3V – 12V DC Rated Voltage: 6V DC Speed Range: 15RPM – 1000RPM Shaft Diameter: 3 mm	Mini Motor • Arduino Motor • Robotics Motor • Metal Gear Motor • N20 Motor • Micro Gear Motor • DC Gear Motor
No Image	MMD-00003-B	150 RPM Geared Motor	MM - Mechanical Module	Johnson Motor, DFRobot, Robu.in, FlyRobo	150 RPM 12V geared motors are high-torque DC motors with integrated reduction gearboxes designed for robotics, smart vehicles, automation systems, conveyor mechanisms, DIY mechanical projects, and Arduino-based applications. The gearbox reduces speed while increasing torque for controlled movement.	Product Type: DC Geared Motor Rated Voltage: 12V DC Speed: 150 RPM Gearbox Type: Metal Gearbox Shaft Diameter: 6 mm Current Consumption: 100mA – 500mA	150RPM Motor • Geared DC Motor • 12V Gear Motor • High Torque Motor • Robotics Motor • DIY Motor • Metal Gear Motor
No Image	MMD-00006-A	Small Reduction Stepper Motor - 5VDC 32-Step 1/16 Gearing	MM - Mechanical Module	Adafruit, Sngle 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	MMM-00003-A	Car Chassis (Plywood)	MM - Mechanical Module	Robu.in, FlyRobo, DFRobot, Keyestudio	RJ12 plywood car chassis is a lightweight robot platform designed for DIY robotics, STEM learning, line follower robots, obstacle avoidance robots, and Arduino-based smart car projects. These chassis are laser-cut from plywood or MDF sheets and provide mounting holes for motors, wheels, sensors, and controllers.	Product Type: Robot Car Chassis Chassis Material: Plywood / MDF Thickness: 3mm – 5mm Compatible Motors: BO Motor / TT Motor / N20	RJ12 Chassis • Robot Car Chassis • Plywood Chassis • DIY Robot Base • Smart Car Platform • Robotics Chassis • Wooden Chassis
No Image	MMP-00003-A	EFT Arm Screw Pack	MM - Mechanical Module	EFT EPOWER, EFT EPOWER, EFT EPOWER, Generic / OEM	M6×60 screw pack designed for assembling and securing drone arms in compatible EFT drone models. Provides structural support and stability to drone frames, helping secure motors, propeller mounts, and arm assemblies. Manufactured for compatibility with E416P, E616P, and E410P drone models.	Outer Diameter: 6 mm Length: 60 mm Standard: M6 × 60 Weight: 100 g Shipping Weight: 0.11 kg Shipping Dimensions: 10 × 8 × 3 cm	M6x60 Screw • Drone Arm Screw • EFT Spare Part

Image	Part Number	Name	Category	Manufacturer	Description	Specification	Tags
No Image	MMP-00003-B	Screws	MM - Mechanical Module	Unbrako, TVS Fasteners, Bossard, RS PRO	M3 x 12mm screws are metric machine screws commonly used for PCB mounting, electronics enclosures, robotics, Arduino projects, 3D printers, and mechanical fastening applications. They are available in stainless steel and alloy steel with Phillips, Allen, and hex head types.	Product Type: Machine Screw Screw Size: M3 x 12mm Thread Type: Metric Thread Application: PCB Mounting, DIY, Robotics	DIY Hardware • M3 Screw • Machine Screw • Hex Screw • Mounting Screw • PCB Screw • M3x12mm Screw
No Image	MMP-00003-C	Screws	MM - Mechanical Module	Unbrako, TVS Fasteners, Bossard, RS PRO	M3 x 30mm screws are metric machine screws used for PCB mounting, robotics, Arduino assemblies, 3D printers, enclosures, mechanical fastening, and DIY electronics projects. They are commonly available in stainless steel and alloy steel with Phillips, Allen, and hex head types.	Product Type: Machine Screw Screw Size: M3 x 30mm Thread Type: Metric Thread Application: PCB Mounting, Robotics, DIY	DIY Hardware • M3 Screw • Machine Screw • Hex Screw • Mounting Screw • PCB Screw • M3x30mm Screw
No Image	MMP-00003-D	Screws	MM - Mechanical Module	Unbrako, TVS Fasteners, Bossard, RS PRO	M3 x 8mm screws are metric machine screws commonly used for PCB mounting, electronics enclosures, Arduino assemblies, robotics, 3D printing, and mechanical fastening applications. These screws are available in stainless steel, carbon steel, and alloy steel variants with different head types.	Product Type: Machine Screw Screw Size: M3 x 8mm Application: PCB Mounting, DIY, Robotics	DIY Hardware • M3 Screw • Machine Screw • Hex Screw • Phillips Screw • Mounting Screw • PCB Screw
No Image	TLC-00003-A	Steel ruler	TL - Tools	Stanley, Freemans, Taparia, Groz	A 60cm steel ruler is a precision measuring tool used for measuring, marking, drawing straight lines, fabrication work, engineering, woodworking, electronics projects, and DIY applications. Stainless steel construction provides durability, rust resistance, and accurate measurement markings.	Product Type: Steel Ruler / Steel Scale Length: 60 cm / 24 inch Measurement Units: cm & inch Thickness: 0.8 mm – 1.2 mm	Steel Ruler • Stainless Steel Scale • Measuring Ruler • Metal Scale • Precision Ruler • Workshop Tool • DIY Measuring Tool
No Image	TLK-00003-A	Screwdriver Set 6pcs	TL - Tools	Stanley, STANLEY Tools, Stanley Black & Decker	Stanley 92-002-2 Cushion Grip is a 6-piece screwdriver set designed for electronics repair, household maintenance, workshop applications, and DIY use. It features ergonomic cushion grip handles, chrome vanadium steel shafts, and durable precision tips for better torque and comfort.	Product Type: Cushion Grip Screwdriver Set Number of Pieces: 6 pcs Tip Types: Phillips & Slotted Usage: Tightening & Loosening Screws	DIY Tool • Cushion Grip Screwdriver • Stanley Screwdriver Set • 6pcs Screwdriver Kit • Hand Tool Kit • Repair Tool
No Image	TLM-00003-A	Microfix Spring Clamp	TL - Tools	Microfix Tools, Stanley Tools, Ingco Tools, Taparia Tools	Microfix spring clamps are compact holding tools used for gripping, fixing, and securing small objects during electronics work, woodworking, craft projects, gluing, soldering, and DIY applications. They provide quick temporary holding with spring-loaded jaws.	Tool Type: Spring Clamp Clamp Size: 2 inch / 3 inch / 4 inch Material: Plastic / Nylon / Steel Spring Usage: Holding, Gluing, Fixing	Spring Clamp • Micro Clamp • Plastic Clamp • DIY Clamp • Mini Grip Clamp • Holding Tool • Workshop Clamp
No Image	TLP-00003-A	Soldering Iron Stand	TL - Tools	Generic / OEM, Pro'sKit, Velleman, Goot, Noel	The soldering iron stand 25W is a standardized support tool designed for safely holding soldering irons during operation. It is compatible with 25W or lower wattage soldering irons. The stand features a heavy-duty metal base for stability and a nickel-plated spring holder that securely holds the soldering iron while not in use. Ideal for electronics workbenches, college labs, DIY projects, and professional repair environments.	Suitable Wattage: 25 Watt (Max) Material: Metal Base with Steel Spring Holder Shipping Weight: 0.3 kg Shipping Dimensions: 20 x 6 x 3 cm	Soldering Stand • 25W • Iron Holder • Metal Base • Spring Holder