



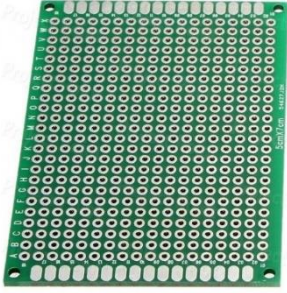



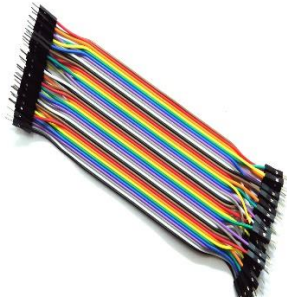









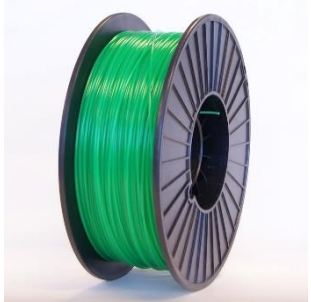
## Sub Components

Component	Description	Image
Raspberry Pi Charger	Provides a stable 5V, 3A power supply specifically designed for running Raspberry Pi boards and similar microcontrollers. Ensures consistent performance and prevents power-related issues.	 A white, rectangular power adapter with a red USB-C port on the side and a white USB-A port on the front. A white cable is plugged into the USB-C port.
Pi HDMI cable	High-quality cable for transmitting audio and video signals from your Raspberry Pi to a display. Essential for setting up and interacting with the graphical interface of your Pi.	 A white HDMI cable with a standard HDMI connector on one end and a Raspberry Pi-specific HDMI connector on the other.
Raspberry Pi Fan	A small cooling fan designed to prevent the Raspberry Pi's CPU from overheating during intensive tasks or prolonged operation, ensuring stable and reliable performance.	 A small, black, square cooling fan with a black frame and a black fan blade. It has a red and black cable attached to the side.
Header Pins (M & F)	Male and female header pins used for making connections on prototype boards (like breadboards), PCBs, and connecting various modules to your microcontroller.	 A collection of male and female header pins in various lengths and colors (black, gold, and silver) arranged in a clear plastic tray.

Component	Description	Image
Green Dotted PCB (Scrabboard 5x7cm)	A "dotted PCB" (Printed Circuit Board) with pre-drilled holes, typically 5x7cm in size. Used for soldering components to create permanent circuits.	
12V Charger - Battery	A 12V power adapter or charger, often used to power larger components, motors, or to recharge 12V batteries that provide portable power to projects.	
XT-60 Pair	A pair of XT-60 connectors (male and female) commonly used in RC hobbies and high-power electronics for secure, high-current connections.	
Black and Red Wires	Basic electrical wires, typically 20-22 AWG, in red (positive) and black (negative). Essential for general wiring and power distribution in circuits.	
Jumper Cables	Flexible wires with connectors on both ends, used for temporary connections between components on breadboards or microcontrollers.	

Component	Description	Image
Wire Cutter	A precision tool for cutting electrical wire cleanly and efficiently.	
Screws & Nuts (M2, M4, M5)	Assorted metric screws and nuts used for mounting components and assembling mechanical parts.	
Wire Stripper	A tool designed to remove insulation from wires without damaging the internal conductors.	
Heat Shrink Tubing	Insulating tubing that shrinks when heated, providing electrical insulation, strain relief, and abrasion resistance.	
Screw Terminals	Connectors with screw clamps used to secure individual wires to a PCB or module.	

Component	Description	Image
Solder	Alloy (tin-lead or lead-free) used to create permanent electrical connections on PCBs or components.	
Soldering Iron Tip Cleaner	Material used to clean oxidation and excess solder from a soldering iron tip.	
Fume Extractor	A device used to draw away harmful fumes generated during soldering.	
Flux	Flux is a chemical agent that cleans and prepares metal surfaces to help solder flow and bond properly.	
Multimeter	Instrument that measures voltage, current, and resistance for diagnosing and testing circuits.	

Component	Description	Image
Electronic Components Kit	Assortment of resistors, capacitors, LEDs, diodes, transistors, and ICs for prototyping.	
Bambu Lab P1S	High-performance FDM 3D printer with multi-colour printing, auto-levelling, and active cooling.	
3D Printing Filament (PLA, 1.75mm)	Thermoplastic filament used by FDM 3D printers, PLA is biodegradable and easy to print.	

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