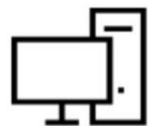
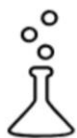


VAS LABS



MAKING KNOWLEDGE EXPLICIT

VAS LABS TECHNOLOGIES

COMPONENTS CATALOG v1.0 2021

- ❖ Any component missing from the catalogue can be requested and then added to the next monthly stock update.
- ❖ VAS LABS reserves the right to change prices at any given time.

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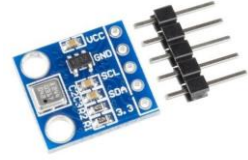
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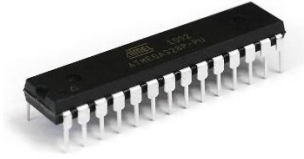






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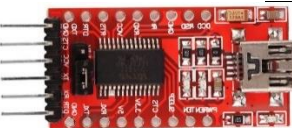

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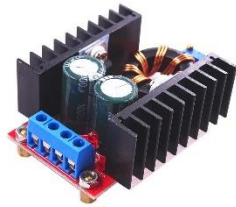
Name	Image	Specifications	Price (USD)
Arduino Uno		<i>Arduino Uno</i> is a microcontroller board based on the ATmega328P (datasheet). It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator (CSTCE16M0V53-R0), a USB connection, a power jack, an ICSP header and a reset button.	20
Arduino Nano		The Arduino Nano is a small, complete, and breadboard-friendly board based on the ATmega328 (Arduino Nano 3. x). It has more or less the same functionality of 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.	13
Arduino Mega		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.	30
ESP32 WROOM-32		ESP32-WROOM-32 (ESP-WROOM-32) is a powerful, generic Wi-Fi+BT+BLE MCU module that targets a wide variety of applications, ranging from low-power sensor networks to the most demanding tasks, such as voice encoding, music streaming and MP3 decoding.	30
Single Side PCB 10x15 10x20 20x30		Copper Clad Laminate , abbreviated to CCL, is a type of base material of PCBs. With glass fibre or wood pulp paper as reinforcing material, a CCL is a type of product through lamination with copper clad on either one side or both sides of reinforcing material after being soaked in resin.	7, 9, 12 respectively


Name	Image	Specifications	Price (USD)
SD Card reader		The module (MicroSD Card Adapter) is a Micro SD card reader module, through the file system and the SPI interface driver, SCM system to complete the file to read and write MicroSD card. Arduino users can directly use the Arduino IDE comes with an SD card to complete the library card initialization and read	6
16x2 LCD		A 16x2 LCD means it can display 16 characters per line and there are 2 such lines. In this LCD each character is displayed in 5x7 pixel matrix. The 16 x 2 intelligent alphanumeric dot matrix display is capable of displaying 224 different characters and symbols. This LCD has two registers, namely, Command and Data.	7.5
Remote control kit		The Infrared IR Wireless Remote Control Module Kit for Arduino consists of ultra-thin infrared remote control and 38KHz infrared receiver module. This mini slim infrared remote control with 20 function keys. Its transmit distances up to 8 meters. Ideal for handling a variety of equipment indoors. IR receiver module can receive a standard 38KHz modulation remote control signal. You can decode the remote control signal through Arduino programming. You can design a variety of remote control robots and interactive works.	4
BMP180		The BMP180 is the function compatible successor of the BMP085, a new generation of high precision digital pressure sensors for consumer applications. The ultra-low power, low voltage electronics of the BMP180 is optimized for use in mobile phones, PDAs, GPS navigation devices and outdoor equipment.	10

Name	Image	Specifications	Price (USD)
16 channel PWM servo control board		The 16-Channel 12-bit PWM/Servo Driver will drive up to 16 servos over I2C with only 2 pins. The on-board PWM controller will drive all 16 channels simultaneously with no additional Arduino processing overhead. What's more, you can chain up to 62 of them to control up to 992 servos - all with the same 2 pins!	20
MEGA Sensor Shield		This shield board plugs on top of an Arduino MEGA (1280 or 2560) and makes it easy to connect to all the MANY Digital Inputs and Outputs and the Analog Inputs. This is particularly good for Home Automation or other high I/O projects with many LEDs or controls where connections to the Mega can be a major problem. NOTE: This is the latest version of a Mega Sensor shield. Other sellers have earlier versions labelled V2 or V3 !	22.5
Atmega328p		ATMEGA328P is high performance, low power controller from Microchip. ATMEGA328P is an 8-bit microcontroller based on AVR RISC architecture. It is the most popular of all AVR controllers as it is used in ARDUINO boards.	11
Solder Paste 300g		Solder paste is used in the manufacture of printed circuit boards to connect surface mount components to pads on the board. It is also possible to solder through-hole pin in paste components by printing solder paste in and over the holes.	7

Name	Image	Specifications	Price (USD)
SMT32 Blue pill		The STM32 board a.k.a Blue Pill is a Development board for the ARM Cortex M3 Microcontroller. It looks very much similar to the Arduino Nano but it packs in quite a punch.	25
EGS002		EG8010 is a digital, function very well bring their own dead-time control of pure sine wave inverter generator chip, used in two-stage DC-DC-AC power conversion structure or single-stage DC-AC power frequency transformer Boost architecture, an external 12MHz crystal oscillator, to achieve high precision, and harmonic distortion is very small, 50Hz or 60Hz pure sine wave inverter ASIC. The chip uses CMOS technology, the internal integration of SPWM sine generator, dead time control circuit, the multiplier factor range, soft start circuit, protection circuit, RS232 serial communication interface and a serial LCD driver module 1602 functions.	22.5
SG90 servo motor		Micro Servo Motor SG90 is a tiny and lightweight server motor with high output power. Servo can rotate approximately 180 degrees (90 in each direction), and works just like the standard kinds but smaller. You can use any servo code, hardware or library to control these servos .	7.5

Name	Image	Specifications	Price (USD)
Power meter PZEM-004T- 100A		PZEM-004T V3.0 or Version 3.0 is the upgraded version to replace the old PZEM004T V1.0. The old version has been sold out in most of the online store and no produce anymore. The updated version of PZEM004T is best for the DIY project, where we need to measure the voltage, current, power, energy, frequency, Power factor (frequency and PF is extra added in the new version) using Arduino/ESP8266/Raspberry Pi like open-source platform.	25
FTDI breakout board		This is a basic breakout board for the FTDI FT232RL USB to serial IC. The pinout of this board matches the FTDI cable to work with official Arduino and cloned 5V Arduino boards. It can also be used for general serial applications. The major difference with this board is that it brings out the DTR pin as opposed to the RTS pin of the FTDI cable. The DTR pin allows an Arduino target to auto-reset when a new Sketch is downloaded. This is a really nice feature to have and allows a sketch to be downloaded without having to hit the reset button. This board will auto reset any Arduino board that has the reset pin brought out to a 6-pin connector.	15
1 channel relay module		The Single Channel Relay Module is a convenient board which can be used to control high voltage, high current load such as motor, solenoid valves, lamps and AC load. It is designed to interface with microcontroller such as Arduino, PIC and etc. The relays terminal (COM, NO and NC) is being brought out with screw terminal. It also comes with a LED to indicate the status of relay.	2

Name	Image	Specifications	Price (USD)
60W hot glue gun		Hot glue guns are portable devices that utilize and dispense hot melt adhesives.	15
High power desolder pump		A desoldering pump , colloquially known as a solder sucker , is a manually-operated device which is used to remove solder from a printed circuit board.	15
11mm transparent glue stick		A product in the form of a tube that contains a solid stick of adhesive. For use in hot glue guns.	\$0.50
150W boost module		150W DC-DC Boost Converter module allows you to step up an input voltage as low as 10V and set the output to 12V-35V. The output voltage will be higher than the input voltage. The boost converter design is based on popular Texas Instrument's UC3844 current mode PWM controller chip.	27

Name	Image	Specifications	Price (USD)
12V 5Ah Lead acid battery		12N5.5-3B 12V Conventional Battery is the industry standard for motorcycles, snowmobiles and ride-on mowers. This is a great power source for intensive projects involving electric motor and other components that require high current	12

More components coming soon!!!!