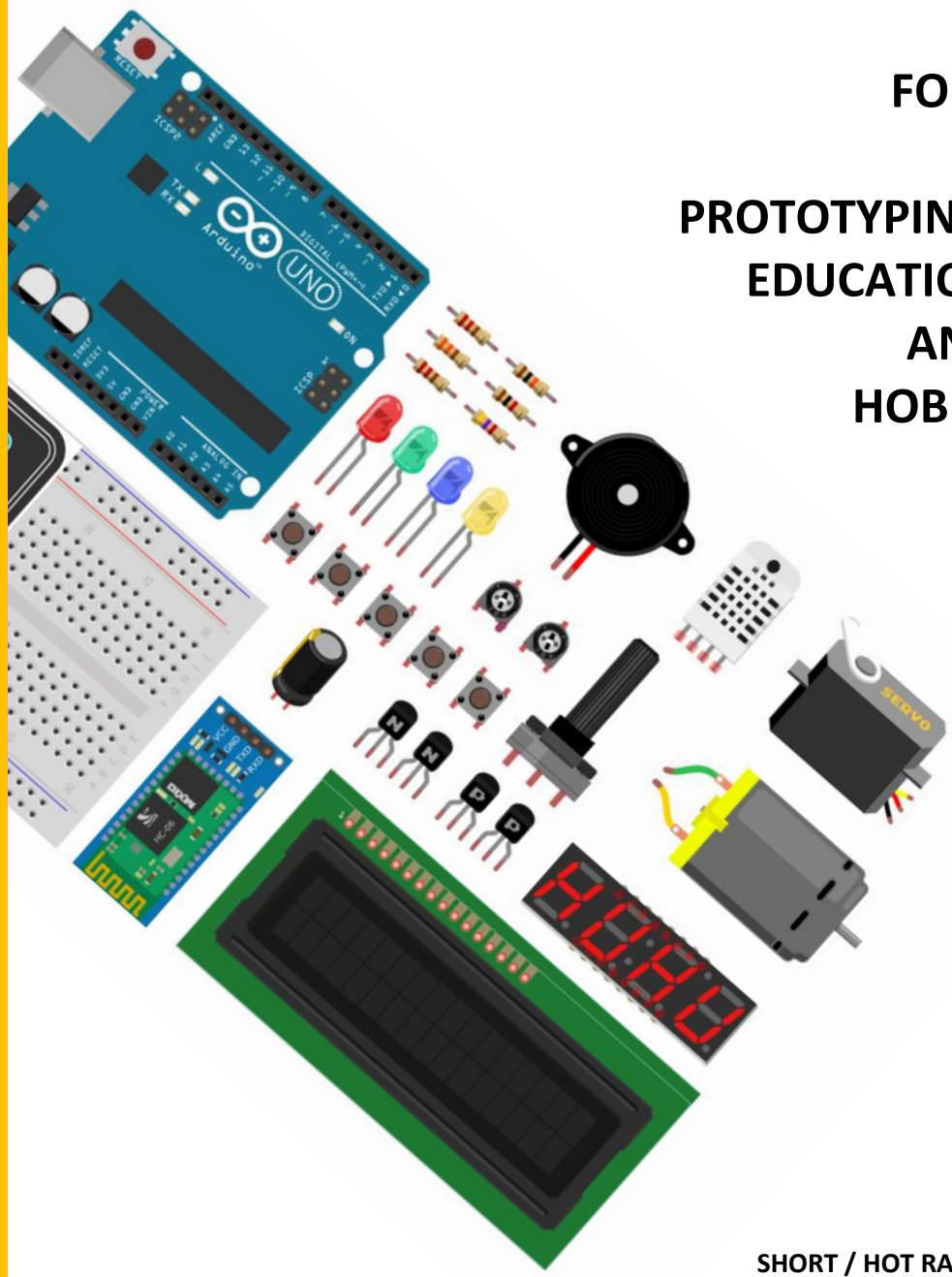
DEVELOPMENT BOARDS, MODULES & ACCESSORIES



FOR :

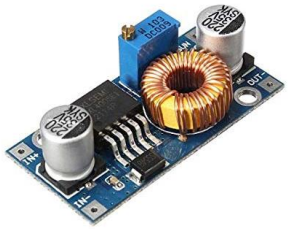
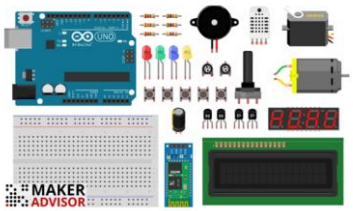
PROTOTYPING, EDUCATION AND HOBBY

SHORT / HOT RANGE

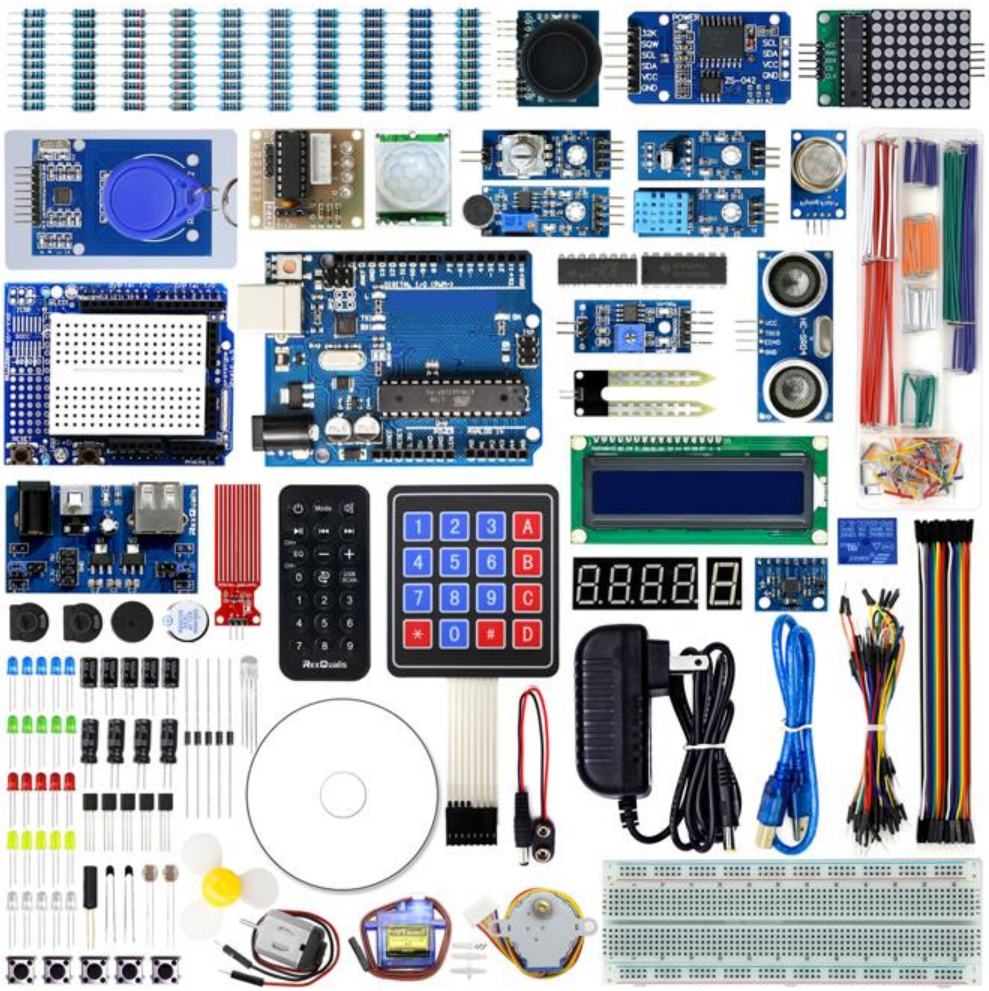
GT ELECTRONICS

GT

CONTENTS

A - CONTROLLERS / CPU BOARDS	B - INPUT BOARDS / DEVICES
	
C - OUTPUT BOARDS / DEVICES	**D - INTERFACES / DISPLAYS**
	
E - POWER DEVICES / CONVERTERS	**F - KITS & ACCESSORIES**
	
G - TOOLS	**H - CONSUMABLES & PARTS**
	
I – MECHANICAL PARTS	
	

INDEX		
A	CONTROLLERS / CPU DEVELOPMENT / PROTOTYPING BOARDS	
B	INPUT BOARDS / DEVICES	
C	C - OUTPUT BOARDS / DEVICES	
D	INTERFACES / DISPLAYS	
E	POWER DEVICES / CONVERTERS	
F	KITS & ACCESSORIES	
G	G - TOOLS	
H	CONSUMABLES & PARTS	
I	MECHANICAL PARTS AND ACCESSORIES	

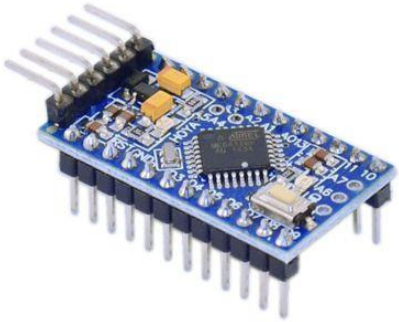


A - CONTROLLERS / CPU DEVELOPMENT / PROTOTYPING BOARDS



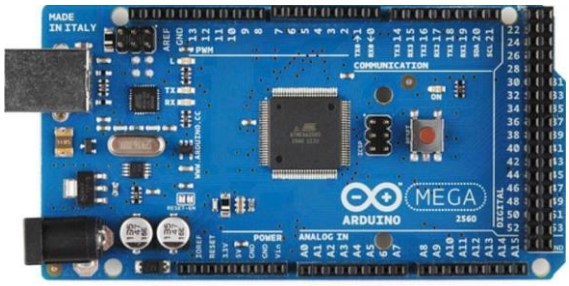
- **ARDUINO UNO REV3 (R3)**
- BASED ON ATmega328.
- WITH 14 DIGITAL I/O
- 6 PWM OUTPUTS
- 6 ANALOG INPUTS
- 16MHz

13M2047-A | **ST-1025-BL / 160068**



- **ARDUINO PRO MINI**
- BASED ON ATmega328.
- WITH 14 DIGITAL I/O
- 6 PWM OUTPUTS
- 6 ANALOG INPUTS
- 16MHz

15M8301 | **MB0010 / 180630**



- **ARDUINO MEGA**
- BASED ON ATMEGA2560
- WITH 54 DIGITAL I/O
- 15 PWM OUTPUTS
- 16 ANALOG INPUTS
- 16MHz

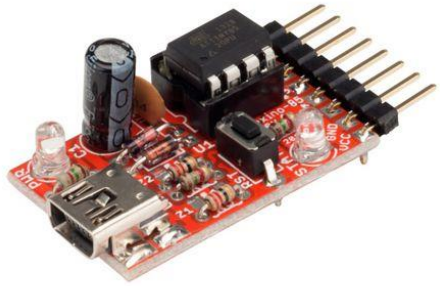
15M8300 | **MB0013 / 180690**



- **ARDUINO NANO BOARD 3.0**
- 14 DIGITAL I/O
- 8 ANALOGUE I/O
- RX/TX TTL PORT
- 6 PWM PORTS
- 5V TO 9V OPERATION

15M8286 | **MB0083 / 180818**

A - CONTROLLERS / CPU DEVELOPMENT / PROTOTYPING BOARDS

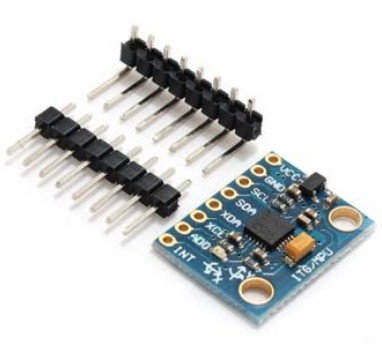
	• **ATMEL BASED ARDUINO BOARD** • BASED ON AT-TINY85
330M0894	**OLIMEXINO-85-ASM**
	• **RASPBERRY Pi 3 B+ SBC** • SINGLE BOARD COMPUTER
330M4976	**Raspberry Pi 3 Model B+**
FOR ADDITIONAL DETAILS PLEASE CONSULT US	
	•

B - INPUT BOARDS / DEVICES



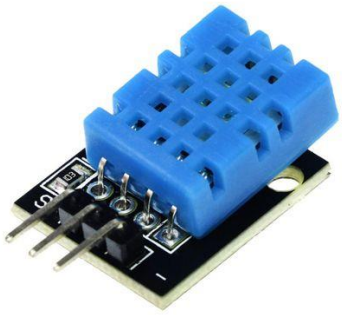
- **ULTRASONIC REFLECTIVE OBJECT SENSOR**
- BASED ON HC-SR04
- PING DESIGN
- IDEAL FOR ROBOTICS / VEHICLES

15M8275	MD0017 / 180749



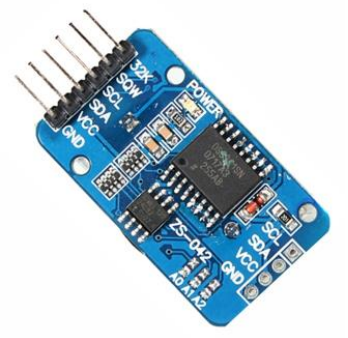
- **GYROSCOPE / ACCELEROMETER BOARD**
- BASED ON MPU6050 PROCESSOR
- MEMS 3-AXIS
- I2C INTERFACE

15M0251	MPU-6050 / 170230



- **TEMPERATURE AND HUMIDITY SENSOR**
- BASED ON DHT11
- 5VDC OPERATION
- 0 TO 50 DEG-C, 20% TO 90% RH
- ONE WIRE INTERFACE
- IDEAL WITH dht11.h LIBRARY

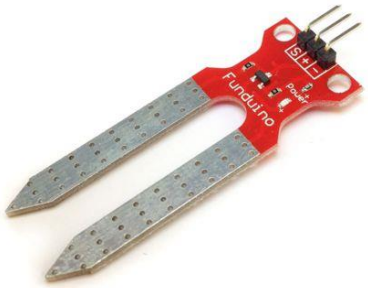
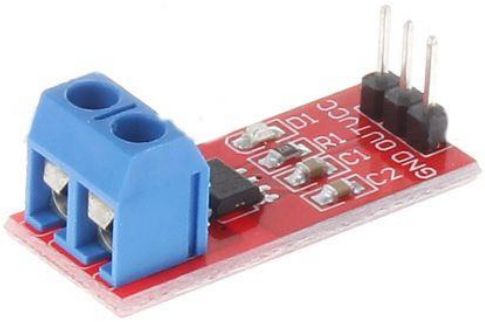
15M4068	KY0015 / 180436



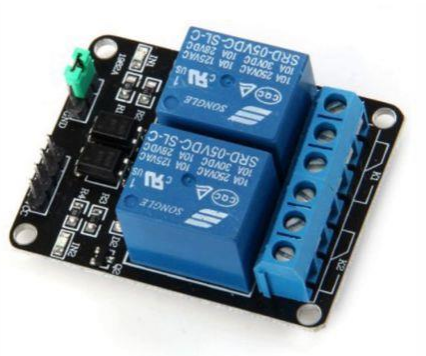
- **REAL TIME CLOCK MODULE**
- BASED ON THE DS3231 IC
- FITTED WITH BATTERY
- I2S INTERFACE

15M0263	81066 / 170076

B - INPUT BOARDS / DEVICES

	• **PIR MOTION DETECTOR SENSOR BOARD** • PASSIVE INFRARED SENSOR • FITTED WITH FRESNEL LENS
15M7189	**KE0054 / 180482**
	• **SOIL MOISTURE SENSING BOARD**
15M8274	**MD0021 / MD0021**
	• **VOLTAGE INTERFACE / SENSOR BOARD** • 0 – 25V DC INPUT • 244mV resolution
15M5002	**170640**
	• **AC/DC CURRENT MEASURING SENSOR BOARD** • BASED ON AC712ELC-20 IC • 20A
15M8318	**KY0133 / 180709**

C - OUTPUT BOARDS / DEVICES



- **DUAL 5VDC 10A RELAY MODULE**
- OPTO ISOLATED
- 5VDC OPERATION
- 10A 250VAC CONTACTS

15M8281	MD0004 / 180602



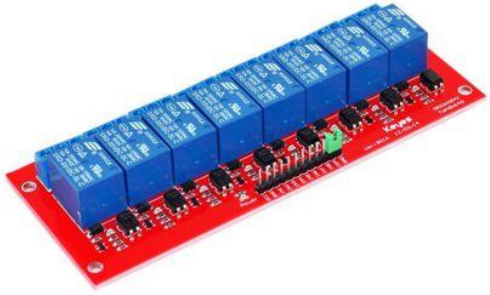
- **STEPPER MOTOR WITH DRIVER BOARD 5V**
- BASED ON THE ULN2003 DRIVER IC
- 5V OPERATION
- HIGH TORQUE

15M8269	MD0029 / 180721



- **4 CHANNEL 12VDC RELAY BOARD**
- OPTO ISOLATED
- 10A 250VAC CONTACTS

15M9412	170628



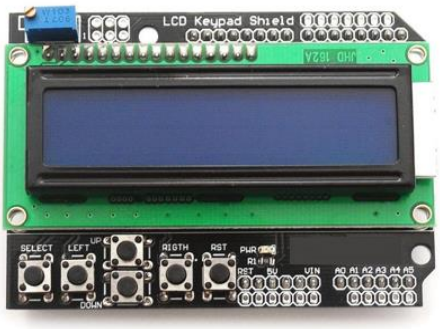
- **8 CHANNEL 12VDC RELAY BOARD**
- OPTO ISOLATED
- 10A 250VAC CONTACTS

15M8278	MD0011 / 181052

C - OUTPUT BOARDS / DEVICES

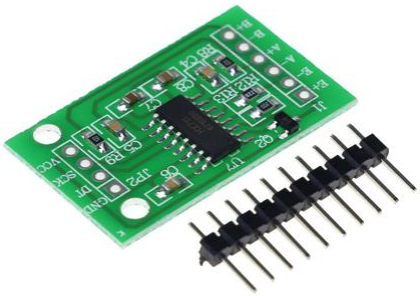
	• **MINIATURE BRUSH MOTOR** • 6VDC 0A18 18,500 RPM
72M0085	**SRE-260W-2290-38**
FOR ADDITIONAL DETAILS, AND MANY OTHER RELATED PRODUCTS PLEASE CONSULT US	•
	• **DC BRUSH MOTOR** • 12VDC 8A 5,500 RPM
82M1491	**RS-997SH-7013F**
	• **GEARED DC BRUSH MOTOR** • 12VDC 270RPM • 2KG.CM TORQUE
72M0126	**EGB-380SA-19160**

D - INTERFACES / DISPLAYS



- **LCD DISPLAY AND KEYPAD BOARD**
- TWO LINES BY 16 CHARACTER LCD
- SIX MENU BUTTONS
- PLUGS INTO ARDUINO BOARD
- USE **LCD4BIT** LIBRARY
- WITH CONTRAST ADJUSTMENT

14M0834	LCD1602KP / 170410



- **24-BIT A TO D CONVERTER / AMPLIFIER**
- SERIAL DATA INTERFACE
- 5Vnom. OPERATION AMPLIFIER
- IDEAL FOR PRESSURE SENSOR AND
- WEIGHING SENSOR / LOAD CELL INTERFACE
- BASED ON HX711 CONVERTER

15M0239	X711 / 170229



- **SERIAL / TTL TO USB / RS232 INTERFACE**
- SERIAL OR TTL USB INTERFACE
- BASED ON FT232RL / HW-417 FTDI CHIP

15M0301-A	170042



- **HC-05 BLUETOOTH INTERFACE MODULE**
- 5VDC OPERATION
- SERIAL COMMUNICATIONS
- MASTER / SLAVE MODES
- DIRECT MCU CONNECTION
- TWO WIRE DATA CONNECTION

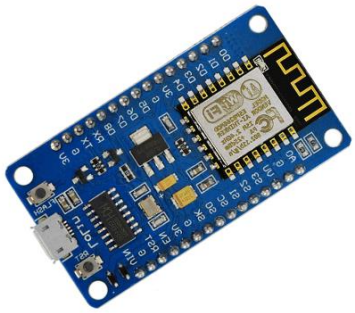
15M0320	HC-05 / 180182

D - INTERFACES / DISPLAYS



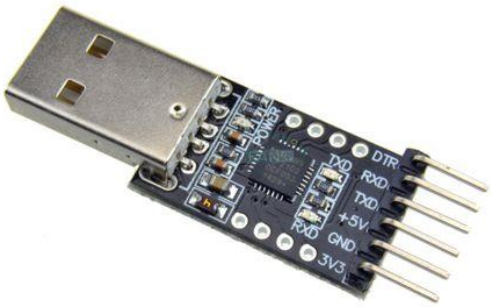
- SERIAL I2C TO PARALLEL INTERFACE FOR LCD
- BASED ON PCF8574
- IDEAL FOR REMOTE DISPLAY
- TWO WIRE DATA COMMUNICATION
- IDEAL FOR LCD1602

15M8248 | **MD0063 / 180468**



- **ESP-12F WiFi INTERFACE BOARD**
- BASED ON ESP8266
- SERIAL / USB INTERFACE
- Node MCU Lua WiFi
- METAL SHIELDED CASE
- SUPPORTS 802.11 B / G / N PROTOCOL

15M8285 | **MB0084 / 180489**



- **USB-2.0 TO TTL UART / SERIAL INTERFACE**
- ALTERNATIVE TO FT232
- BASED ON THE CP2102 IC
- USB TO UART BRIDGE
- 3V AND 5V OPERATION

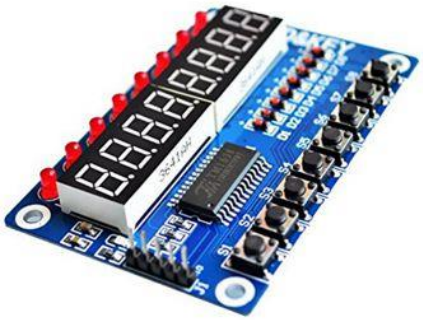
15M8133 | **MD0336 / 180575**



- **LCD DISPLAY 2-LINES 16-CHARACTERS**
- 5VDC OPERATION
- USE ARDUINO STANDARD LIBRARY
- LCD1602

15M8440 | **62520001 / 180448**

D - INTERFACES / DISPLAYS



- **KEYBOARD AND DISPLAY**
- 3-WIRE SERIAL INTERFACE
- WITH BUILT-IN I/O EXPANDER

15M0791 | **TM1638 / 170252**



- **PANEL MOUNT MULTI-DISPLAY**
- DISPLAY VOLTAGE UP TO 100V
- DISPLAY CURRENT UP TO 10A
- OTHER RATINGS AVAILABLE
- SEE SECTION H FOR LED DISPLAYS

15M1180 | **DSN-VC288 / 170425**



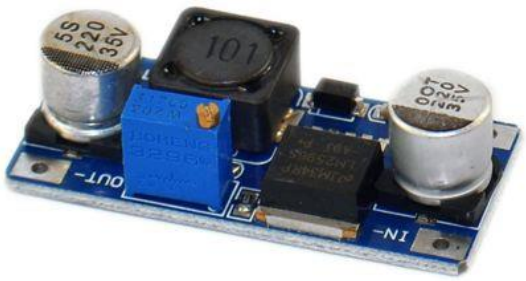
- **DOT MATRIX LED DISPLAY 8x8**
- MAX7219 CONTROLLER INCLUDED
- USES ONLY 3 I/O

15M8237 | **MD0088 / 18----**

WE STOCK AND SELL OVER 100,000 PRODUCT LINES

ENQUIRE ABOUT OTHER PRODUCTS THAT WE CAN SOURCE FOR YOU…

E - POWER DEVICES / CONVERTERS



- **DC-DC BUCK CONVERTER BOARD 3A**
- INPUT = 3 TO 40VDC
- OUTPUT = 1.25 TO 35VDC ADJUSTABLE
- OUTPUT CURRENT = 3A
- BASED ON LM2596S
- SWITCH MODE EFFICIENT DESIGN

15M8180	MD0209 / 180595



- **DC-DC CONVERTER BOOSTER**
- IN=0.0 TO 5VDC
- OUT=5VDC / USB
- 600mA

15M8188	MD0183 / 180538



- **DC-DC BUCK CONVERTER BOARD 3A**
- INPUT = 3 TO 26VDC
- OUTPUT = 1.2 TO 24VDC ADJUSTABLE
- OUTPUT CURRENT = 3A
- BASED ON LM2596S
- WITH DISPLAY

15M7001	KE0091 / 180787



- **DC-DC ADJUSTABLE BOOSTER CONVERTER**
- IN=3 TO 34VDC
- OUT=4 TO 35VDC
- 2.5A
- WITH DISPLAY

15M8134	MD0334 / 180964

E - POWER DEVICES / CONVERTERS



- **LITHIUM BATTERY CHARGER BOARD**
- CHARGES AT 1Amp / 4.2V 1%
- Green LED = fully charged
- Red LED = charging
- Parallel charging allowed

15M8218 | **MD0116 / 180511**



- **ENCLOSED SWITCH MODE POWER SUPPLY**
- AVAILABLE IN VARIOUS VOLTAGES
- AVAILABLE IN VARIOUS CURRENTS

372M0256 | **LRS-150-12**



- **DESKTOP SWITCH MODE POWER SUPPLY**
- AVAILABLE IN VARIOUS VOLTAGES
- AVAILABLE IN VARIOUS CURRENTS

372M1107 | **GST18A12-P1J**



WE STOCK THE LARGEST RANGE OF:

POWER SUPPLIES,
DC-DC CONVERTERS.

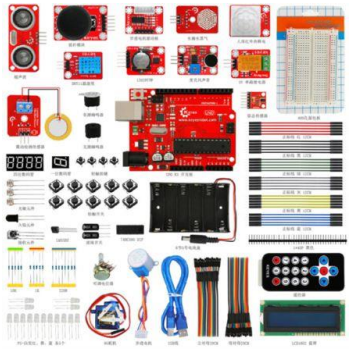
POWERED BY MEAN WELL, MORNSUN AND OTHERS

F - KITS & ACCESSORIES



- **ARDUINO STARTER KIT**
- BASED ON UNO R3
- BUILD SIMPLE & COMPLEX PROJECTS

15M7182 | **KE0084 / 180393**



- **ARDUINO SUPER STARTER KIT**
- BASED ON UNO R3
- BUILD SIMPLE & COMPLEX PROJECTS

15M7184 | **KE0082 / 180469**



- **ARDUINO STARTER KIT MEGA 2560**
- BASED ON THE MEGA 2560 BOARD
- BUILD SIMPLE & COMPLEX PROJECTS

15M7181 | **KE0085 / 180392**



- **ASSORTMENT OF 37 SENSORS KIT**
- MEASURE OR DETECT GAS, LIQUIDS
- MEASURE OR DETECT TEMPERATURE,
- HUMIDITY, ETC…

14M2150-M | **ST1065 / 170113**

F - KITS & ACCESSORIES



- **GEARED MOTOR AND WHEEL KIT**
- 5 - 6VDC
- 65mm DIAMETER WHEEL
- FULL SPEED GEARBOX OUTPUT 230RPM
- DC BRUSH MOTOR MG-6-48

15M2255	AC032 / 160004



- **MOTOR SERVO 180-DEG MICRO ANALOG**
- 4.8 TO 6V OPERATION
- 120Ms / 60-DEGREES
- 1.3KG.CM
- 9g

14M1571	FS90



- **DIGITAL TEMPERATURE PROBE**
- BASED ON DS18B20
- STAINLESS STEEL HEAD

14M0403	DFR0198 / 180993



- **LOAD CELL**
- 0 TO 50Kg
- 10VDC, 1mv/v, 1K-Ohm

15M0305	ALX-50KG / 170031

G - TOOLS



- **BREADBOARD 400-HOLES**
- TRANSPARENT
- FOR QUICK PROTOTYPING

15M5539 | **AC034 / 170170**



- **HELPING HANDS AID**
- WITH MAGNIFIER
- WITH LED LIGHT
- ETC…

50M0091 | **MG16129-C / 181197**



- **HAND HELD DIGITAL MULTIMETER**
- 500V 10A AC / DC RATED
- MEASURES VOLT, AMP, OHMS, TEMP
- TESTS DIODES

330M0117 | **UT33C+ / 170445**



- **HAND DRILL CHUCK**
- SUPPLIED WITH DRILL BITS
- 0.3 TO 3.2mm

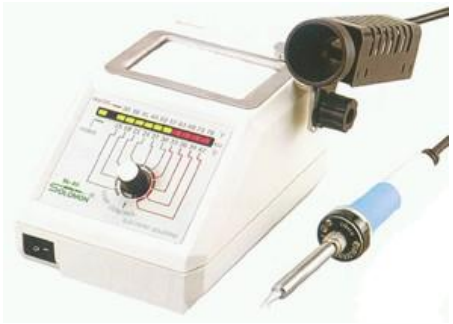
15M0259 | **1055545 / 170163**

G - TOOLS



- **SOLDER REEL STAND / DISPENSER**
- SOLDER NOT INCLUDED
- HEAVY BASE

82M0410	208 / 170399



- **SOLDERING STATION**
- ADJUSTABLE TEMPERATURE
- 48W

330M0247	SL-20-220VAC



- **SOLDERING IRONS 25 TO 100W**
- AVAILABLE IN DIFFERENT RATINGS

330M0260	SH-812B-220AC-SA



- **SOLDERING TIP CLEANING SPONGE**
- **AVAILABLE IN VARIOUS SIZES**

15M0243-A	160003

H - CONSUMABLES & PARTS



- **SIL PIN HEADER 40-WAY**
- 20mm HEIGHT
- SQUARE PINS
- 2.54mm PITCH / PIN SPACING
- GOLD PLATED
- IDEAL FOR STACKING BOARDS

14M3673	PHSS40G10-14-3.0-RH



- **SIL SOCKET WITH EXTENDED PINS 6-WAY**
- 15mm PIN LENGTH
- 23mm TOTAL HEIGHT
- 2.54mm PITCH / PIN SPACING
- GOLD PLATED
- IDEAL FOR STACKING BOARDS

14M9276-A	YTS1N06X



- **SIL SOCKET WITH EXTENDED PINS 8-WAY**
- 15mm PIN LENGTH
- 23mm TOTAL HEIGHT
- 2.54mm PITCH / PIN SPACING
- GOLD PLATED
- IDEAL FOR STACKING BOARDS

14M9277	YTS1N08X



- **MULTIPURPOSE SOLDER 0.71mm**

340M0173	60T2-RC-0.71-500G

H - CONSUMABLES & PARTS



- **JUMPER LEADS**
- MALE TO MALE
- 40-WAY
- 200mm LONG

14M8106-A | **JUM-001MMP / 170559**



- **5mm RED LED**
- 3,500 mcd

64M0085 | **SP1012022-22 / 180457**



- **5mm GREEN LED**
- 130mcd



- **SPDT MINIATURE TOGGLE SWITCH**
- ON-ON
- 3A 250V

H - CONSUMABLES & PARTS



- **NTC THERMISTOR 10K-OHMS**
- OTHER VALUES AVAILABLE
- OTHER SHAPES AVAILABLE
- PTC ALSO AVAILABLE

14M1085-W	MFP-2-103F-3435F / 170474



- **DUAL LED 7-SEGEMNT DISPLAY**
- 14mm CHARACTER HEIGHT
- COMMON CATHODE

72M2439	CD-5621AS / 170782



- **TRIPLE LED 7-SEGEMNT DISPLAY**
- 14mm CHARACTER HEIGHT
- COMMON CATHODE

35MA003	5631AH / 170826



- **QUAD LED 7-SEGEMNT DISPLAY**
- 14mm CHARACTER HEIGHT
- COMMON CATHODE

15M8210	MD0127 / 180726

I - MECHANICAL PARTS



- **STAINLESS STEEL RODS FOR SHAFTS**
- **AVAILABLE IN VARIOUS DIAMETERS**
- **AND IN VARIOUS LENGTHS**

15M6414	180312



- **THREADED ROD / FEED SCREW**
- 300mm LONG
- OTHER SIZES AVAILABLE ON DEMAND

35M6748-W	T8-2-D8 / 170069



- **T-SUPPORT BRACKET**
- ALUMINIUM
- AVAILABLE IN VARIOUS SIZES

15M6303	180295



- **BEARING MOUNT / SUPPORT FLANGE**
- AVAILABLE IN MANY SIZES

72M5167	KP000 / 181018

I - MECHANICAL PARTS



- **BALL BEARINGS**
- AVAILABLE IN MANY SIZES

15M1036 | **6200-2Z / 170195**



- **STEEL BOLTS, NUTS AND WASHERS**
- AVAILABLE IN MOST SIZES
- AVAILABLE IN MOST MATERIALS



- **NYLON / PLASTIC BOLTS, NUTS AND WASHERS**
- AVAILABLE IN MOST SIZES
- AVAILABLE IN MOST MATERIALS



- **METAL OR PLASTIC SPACERS**
- AVAILABLE IN MOST SIZES
- AVAILABLE IN VARIOUS MATERIALS