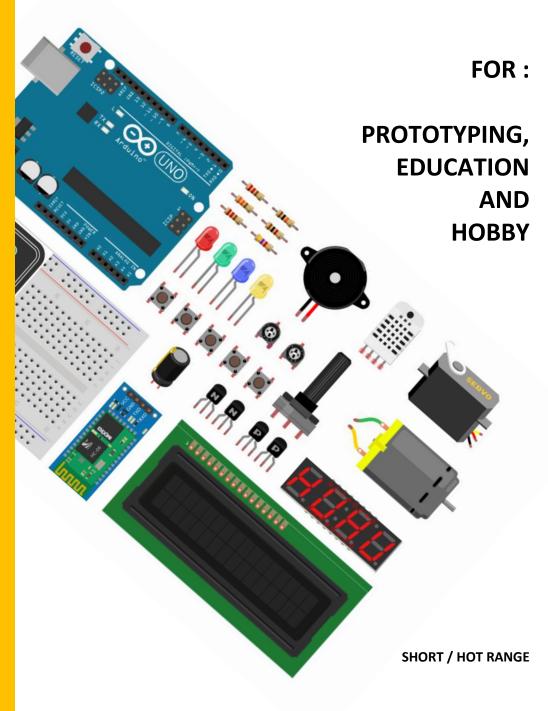
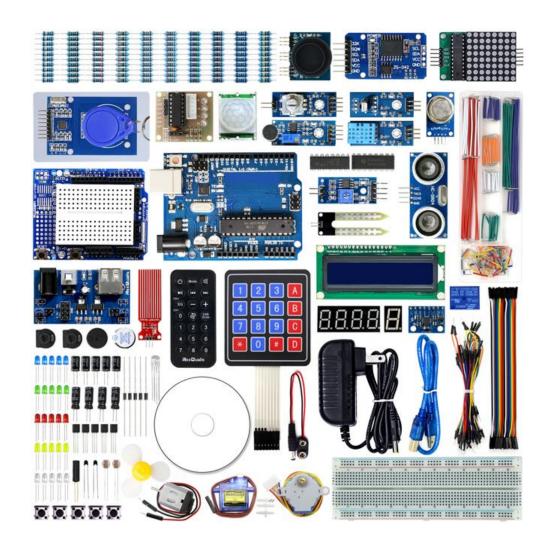
DEVELOPMENT BOARDS, MODULES & ACCESSORIES





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 www.mantech.co.za THIS IS A SHORT FORM CATALOGUE COMPLETE RANGES OF ALL OUR PRODUCTS, ARE AVAILABLE IN STORE AND ON OUR WEBSITE. www.mantech.co.za

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Н	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 CONSULT OUR WEBSITE

WWW.MANTECH.CO.ZA

WE HAVE MULTIPLE WAREHOUSE LOCATIONS

FOR OUR FULL RANGE OF PRODUCTS GOTO: WWW.MANTECH.CO.ZA

- Johannesburg
- Durban
- Cape Town
- Hong Kong
- Braga
- Guimaraes
- Lisbon
- And more...

B - INPUT BOARDS / DEVICES



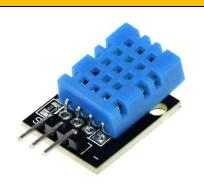
- ULTRASONIC REFLECTIVE OBJECT SENSOR
- BASED ON HC-SR04
- PING DESIGN
- IDEAL FOR ROBOTICS / VEHICLES

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** MD0021 / MD0021 15M8274 **VOLTAGE INTERFACE / SENSOR BOARD** 0 - 25V DC INPUT 244mV resolution 15M5002 170640 AC/DC CURRENT MEASURING SENSOR BOARD BASED ON AC712ELC-20 IC 20A KY0133 / 180709 15M8318

C-OUTPUT BOARDS / DEVICES



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

15M8269

15M8281

MD0004 / 180602

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

- 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

FOR ADDITIONAL DETAILS, AND MANY
OTHER RELATED PRODUCTS
PLEASE CONSULT

OUR WEBSITE

72M0085

WWW.MANTECH.CO.ZA

SRE-260W-2290-38



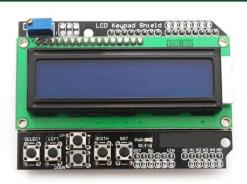
82M1491

- DC BRUSH MOTOR
- 12VDC 8A 5,500 RPM

- RS-997SH-7013F
- GEARED DC BRUSH MOTOR
- 12VDC 270RPM
- 2KG.CM TORQUE

72M0126 EGB-380SA-19160

D-INTERFACES / DISPLAYS



14M0834

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

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 DSN-VC288 / 170425 15M1180 **DOT MATRIX LED DISPLAY 8x8** MAX7219 CONTROLLER INCLUDED USES ONLY 3 I/O MD0088 / 18----15M8237 WE STOCK AND SELL OVER 100,000 **ENQUIRE ABOUT OTHER PRODUCTS PRODUCT LINES** THAT WE CAN SOURCE FOR YOU...

E - POWER DEVICES / CONVERTERS



15M8180

- 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

- 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



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

372M1107	GST18A12-P1J
ST. M. C.	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

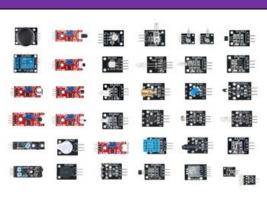
KE0082 / 180469



- 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

F-KITS & ACCESSORIES



- DC PLUG BREAKOUT ADAPTOR
- 2.1mm TO SCREW TERMINALS
- AVAILABLE IN OTHER SIZES
- AVAILABLE IN OTHER CONFIGURATIONS

14M4212

PC100 / 170587



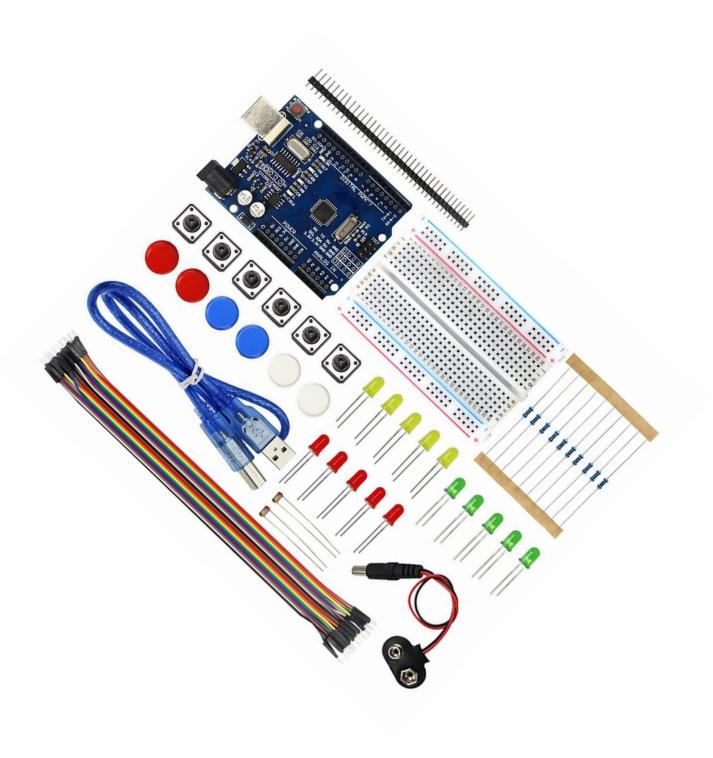
- D-SUB 9-WAY BREAKOUT ADAPTOR
- FEMALE TO SCREW TERMINALS
- AVAILABLE IN OTHER SIZES
- AVAILABLE IN OTHER CONFIGURATIONS
- •



- ARDUINO-NANO BREAK OUT BOARD
- HEADER SOCKETS TO SCREW TERMINALS



- ACRYLIC / PERSPEX ENCLOSURE
- FOR ARDUINO UNO



G-TOOLS BREADBOARD 400-HOLES TRANSPARENT FOR QUICK PROTOTYPING AC034 / 170170 15M5539 **HELPING HANDS AID** WITH MAGNIFIER WITH LED LIGHT ETC... MG16129-C / 181197 50M0091 HAND HELD DIGITAL MULTIMETER • 500V 10A AC / DC RATED MEASURES VOLT, AMP, OHMS, TEMP **TESTS DIODES** UT33C+ / 170445 330M0117 HAND DRILL CHUCK SUPPLIED WITH DRILL BITS 0.3 TO 3.2mm 1055545 / 170163 15M0259

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** YTS1N08X 14M9277 **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** CD-5621AS / 170782 72M2439 • TRIPLE LED 7-SEGEMNT DISPLAY 14mm CHARACTER HEIGHT **COMMON CATHODE** 35MA003 5631AH / 170826 **QUAD LED 7-SEGEMNT DISPLAY** 14mm CHARACTER HEIGHT **COMMON CATHODE** MD0127 / 180726 15M8210

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 T8-2-D8 / 170069 35M6748-W T-SUPPORT BRACKET ALUMINIUM **AVAILABLE IN VARIOUS SIZES** 15M6303 180295 **BEARING MOUNT / SUPPORT FLANGE AVAILABLE IN MANY SIZES** KP000 / 181018 72M5167

I - MECHANICAL PARTS BALL BEARINGS AVAILABLE IN MANY SIZES 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**

I - MECHANICAL PARTS



- FLEXIBLE SHAFT COUPLINGS
- AVAILABLE IN MANY SIZES



- FLANGE SHAFT COUPLING
- AVAILABLE IN MANY SIZES



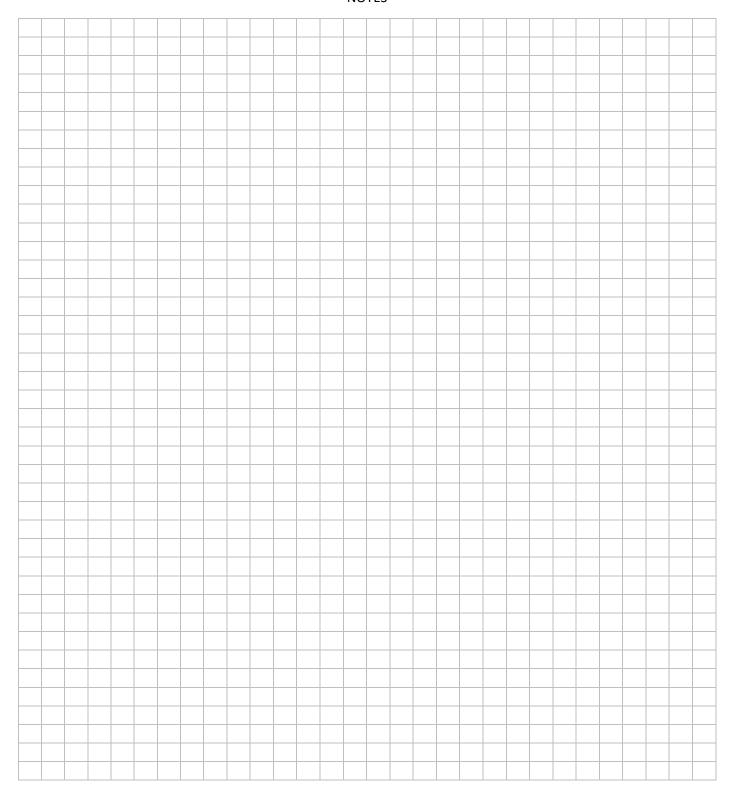
- SOLID / BRASS SHAFT COUPLINGS
- AVAILABLE IN MANY SIZES



- UNIVERSAL JOINT / SHAFT COUPLINGS
- AVAILABLE IN MANY SIZES



NOTES



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