



# DISEÑO Y CONTROL

# H

**PROGRAMADORES Y GRABADORES**

H1

**PROTOBOARDS Y PLACAS EXPERIMENTALES**

H1

**WIRE WRAPPING**

H3

**PLACAS PARA ADQUISICION DE DATOS Y CONTROL**

H3

**PLACAS TRANSMISORAS / RECEPTORAS**

H4

**PLACAS ARDUINO Y RASPBERRY**

H4

## H - DISEÑO Y CONTROL

### PROGRAMADORES Y GRABADORES



**TOP-2008**

CODIGO	DESCRIPCION
GRAB-MEM	GRABACION DE MEMORIAS
PICJUNIOR	PROGRAMADOR PIC
PICUSBAP	PROGRAMADOR PIC
PICUSBECO	PROGRAMADOR PIC
PICUSBPLUS	PROGRAMADOR PIC C/ZOCALO ZIF
TOP-2008	PROGRAMADOR UNIVERSAL

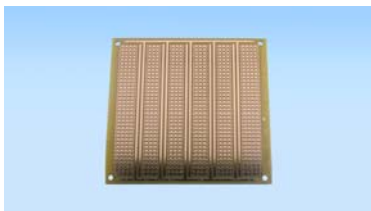
### PROTOBOARDS Y PLACAS EXPERIMENTALES



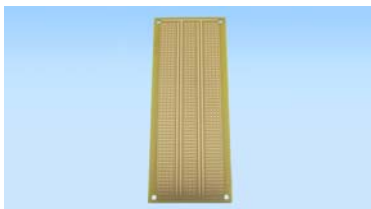
**BK-01**



**BK-02**

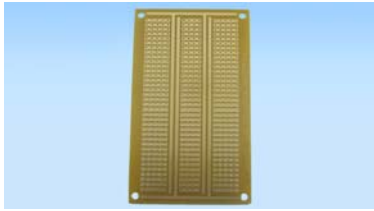


**BK-03**



**BK-04**

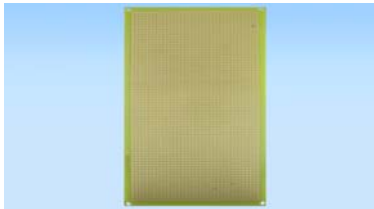
CODIGO	DESCRIPCION
BK-01	PLACA EXP 100X200 2000 PADS
BK-02	PLACA EXP 100X150 938 PADS
BK-03	PLACA EXP 100X100 938 PADS
BK-04	PLACA EXP 55X150 786 PADS
BK-05	PLACA EXP 55X100 506 PADS
BK-06	PLACA EXP 100X200 2732 PADS
BK-06EPOXI	PLA EXP 100X200 2732PADS EPOXI
BK-07	PLA EXP 100X100 1292 PADS
BK-07EPOXI	PLA EXP 100X100 1292 PADS EPOX
BK-08	PLACA EXP 50X100 572PADS
BK-08EPOXI	PLACA EXP 50X100 572PADS EPOXI
BK-09	PLACA EXP 100X200 737PADS
BK-10	PLACA EXP 100X100 357 PAD.0.2"
BK-11	PLACA EXP 50X100 171 PAD.0.2"
BK-14	PLACA EXP 55X145 706 PADS
BK-16	PLACA EXP 50X70 BARRAS Y SALID
BK-17	PLACA EXP 65X65 P/C.I.16 PATAS
BK-18	PLACA EXP 40X100 196 PADS
BK-19	PLACA EXP 50X50 P/C.I.28 PATAS
BK-2101	FENOLICO SIM/FAZ 100X100 FOTOS
BK-2102	FENOLICO SIM/FAZ 100X150 FOTOS
BK-2104	FENOLICO SIM/FAZ 200X150 FOTOS
BK-2206	FENOL DOBLE FAZ 250X200 FOTOSE
BK-23	PLACA EXP BARRAS 90X135MM
BK-24	PLACA EXP BARRAS 65X135MM
BK-25	PLACA EXP BARRAS 26X135MM
BK-26	PLACA EXP ISLAS X2 91X135MM
BK-27	PLACA EXP ISLAS X2 65X135MM
BK-28	PLACA EXP ISLAS X2 26X135MM
BK-4101	EPOXI SIM/FAZ 100X100 FOTOSENS
BK-4102	EPOXI SIM/FAZ 100X150 FOTOSENS
BK-4104	EPOXI SIM/FAZ 200X150 FOTOSENS
BK-4106	EPOXI SIM FAZ 250X200 FOTOSENS
BK-4201	EPOXI DOBLE FAZ 100X100 FOTOS.
BK-4202	EPOXI DOBLE FAZ 150X100 FOTOS.



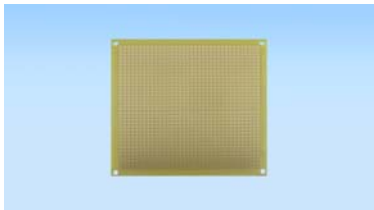
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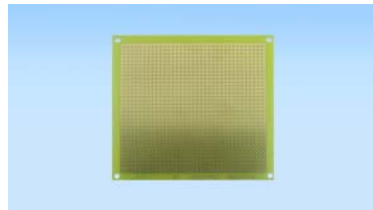
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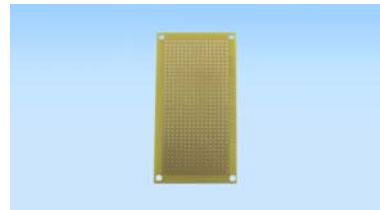
**BK-06EPOXI**



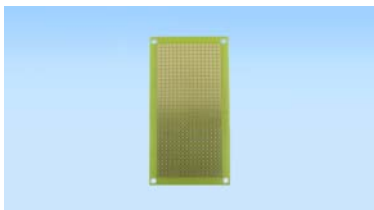
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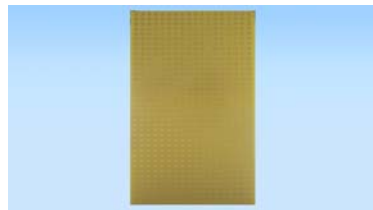
**BK-07EPOXI**



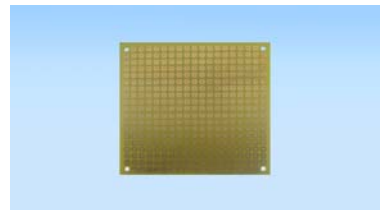
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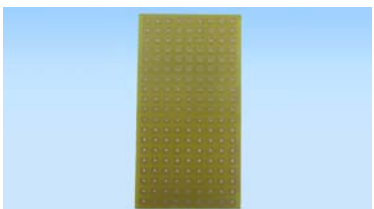
**BK-08EPOXI**



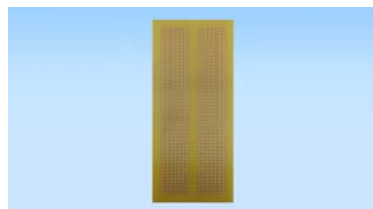
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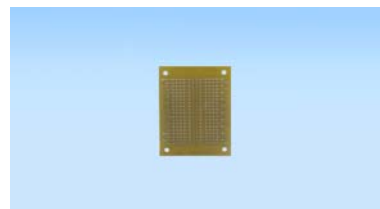
**BK-10**



**BK-11**



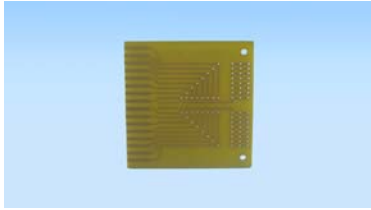
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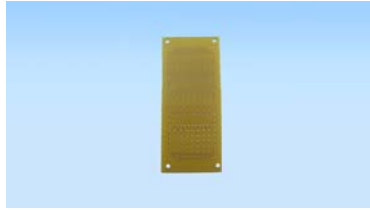
**BK-16**

**BK-4204**  
**BK-4206**  
**BK-FR2100X100SF**  
**BK-FR2150X100SF**  
**BK-FR2200X100SF**  
**BK-FR2300X200SF**  
**BK-FR2300X300SF**  
**BK-FR250X50DF**  
**BK-FR250X50SF**  
**BK-FR4100X100DF**  
**BK-FR4100X100SF**  
**BK-FR4150X100DF**  
**BK-FR4150X100SF**  
**BK-FR4200X100DF**  
**BK-FR4200X100SF**  
**BK-FR4200X200SF**  
**BK-FR4300X200DF**  
**BK-FR4300X200SF**  
**BK-PAPELTERA3**  
**BK-PAPELTERA4**  
**BK-PERC250**  
**BK-REMO**  
**BK-REVE**  
**PROTOBOARD-1360**  
**PROTOBOARD-400**  
**PROTOBOARD-730**  
**PROTOBOARD-830**

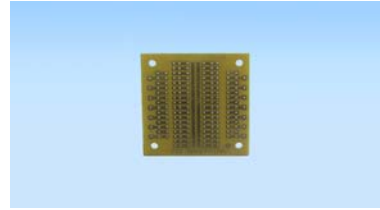
EPOXI DOBLE FAZ 200X150 FOTOS.  
 EPOXI DOBLE FAZ 250X200 FOTOS.  
 FENOLICO SIM/FAZ 100X100 VIRG.  
 FENOLICO SIM/FAZ 150X100 VIRG.  
 FENOLICO SIM/FAZ 200X100 VIRG.  
 FENOLICO SIM FAZ 300X200 VIRG.  
 FENOLICO SIM FAZ 300X300 VIRG.  
 FENOLICO DOB FAZ 50X 50 VIRG.  
 FENOLICO SIM FAZ 50X 50 VIRG.  
 EPOXI DOBLE FAZ 100X100 VIRGEN  
 EPOXI SIM/FAZ 100X100 VIRGEN  
 EPOXI DOBLE FAZ 150X100 VIRGEN  
 EPOXI SIM/FAZ 150X100 VIRGEN  
 EPOXI DOBLE FAZ 200X100 VIRGEN  
 EPOXI SIM/FAZ 200X100 VIRGEN  
 EPOXI SIM/FAZ 200X200 VIRGEN  
 EPOXI DOBLE FAZ 300X200 VIRGEN  
 EPOXI SIM/FAZ 300X200 VIRGEN  
 PAPEL TERMICO A3 297X420MM  
 PAPEL TERMICO A4 210X297MM  
 PERCLORURO FERRICO 250 CC.  
 REMOVEDOR P/PANEL FOTOS.250CC.  
 REVELADOR P/PANEL FOTOS.250CC.  
 1360 PUNTOS CON BORNERA  
 CHICO 400 PUNTOS  
 CHICO 730 PUNTOS  
 CHICO 830 PUNTOS



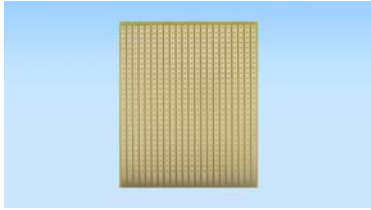
**BK-17**



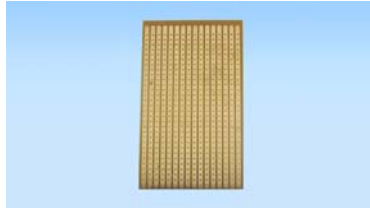
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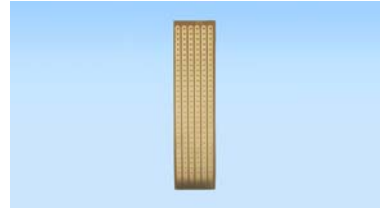
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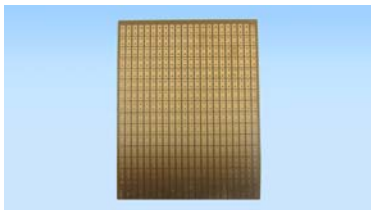
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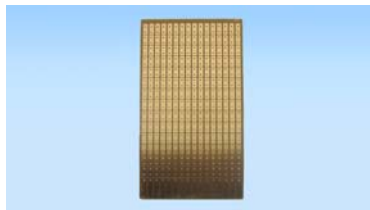
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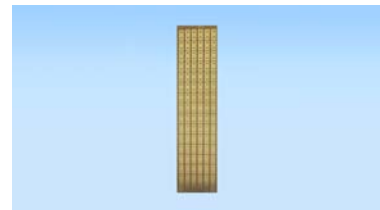
**BK-25**



**BK-26**



**BK-27**



**BK-28**



**PROTOBOARD-XX**

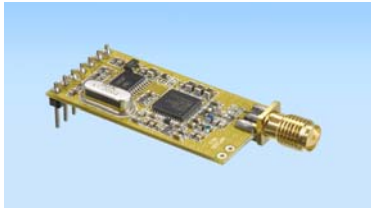
## WIRE WRAPPING

CODIGO	DESCRIPCION
WSU-BLACK	ALAMBRE WIRE WRAP NEGRO METRO
WSU-BLUE	ALAMBRE WIRE WRAP AZUL METRO
WSU-GREEN	ALAMBRE WIRE WRAP VERDE METRO
WSU-RED	ALAMBRE WIRE WRAP ROJO METRO
WSU-WHITE	ALAMBRE WIRE WRAP BLANCO METRO
WSU-YELLOW	ALAMBRE WIRE WRAP AMAR. METRO

## PLACAS P/ADQUISICION DE DATOS Y CONTROL

CODIGO	DESCRIPCION
DS100R	CONVERSION RS232 A TCP/IP
GRAY	PROTEC.RAYOS/DESC.ELEC.AXI485
PLA-DISPLAY	DISPLAY INTELIGENTE 4 DIGITOS

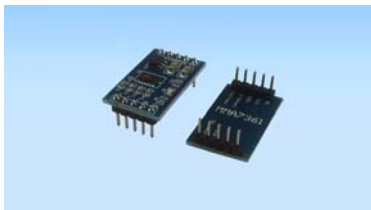
## PLACAS TRANSMISORAS / RECEPTORAS



APC200

CODIGO	DESCRIPCION
ANT-433	ANTENA 433MHZ CON CONECTOR SMA
APC200	MODULO TRANS/REC 431-478MHZ
APC230	MODULO TRANS/REC 431-478MHZ
CONV-RS232/TTL	PLACA CONVERSORA RS232 A TTL

## PLACAS ARDUINO Y RASPBERRY



AR-ACELEROMETRO



AR-ACS712

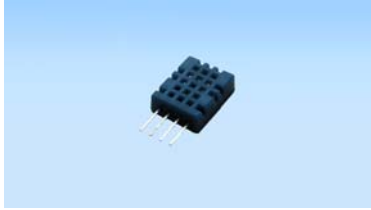


AR-BLE

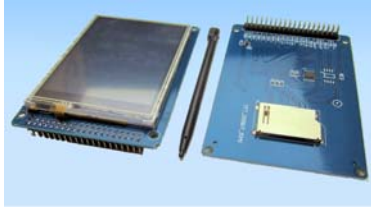


AR-CANBUS

CODIGO	DESCRIPCION
AR-ACELEROMETRO	MODULO ACELEROMETRO C/MMA7361
AR-ACS712	MODULO SENSOR DE CORRIENTE
AR-BLE	PLACA BLUETOOTH 4.0 P/ARDUINO
AR-CANBUS	PLACA CAN BUS P/ARDUINO
AR-DHT11	SENSOR HUMEDAD Y TEMP P/ARDUIN
AR-DHT22	SENSOR HUMEDAD Y TEMP P/ARDUIN
AR-DISP320X240	DISPLAY 320X240 P/ARDUINO
AR-DUER3	PLACA ARDUINO DUE R3
AR-ESP8266	MODULO WI FI P/ARDUINO ESP14
AR-FT232RL	PLACA UART USB A P/ARDUINO
AR-FT232RLMINI	PLACA UART USB MINI P/ARDUINO
AR-FUENTE	PLAQUETA FUENTE A PROTOBOARD
AR-HC06	PLACA BLUETOOTH HC-06P/ARDUINO
AR-HC06MINI	PLACA BLUETOOTH MINI P/ARDUINO
AR-HC-SR04	SENSOR ULTRASONIDO P/ARDUINO
AR-HC-SR501	MODULO PIR SENSOR MOVIMIENTO
AR-INFRA	SENSOR OBSTACULOS 1-CH P/ARDUI
AR-INFRA4	SENSOR OBSTACULOS 4-CH P/ARDUI
AR-KEYB4X4	TECLADO 4X4 PARA ARDUINO
AR-L293SHIELD	PLACA STEPPER MOTOR P/ARDUINO
AR-L298SHIELD	PLACA STEPPER MOTOR P/ARDUINO
AR-LEONARDOR3	PLACA ARDUINO LEONARDO R3
AR-MATRIZ8X8	PLACA C/MATRIZ 8X8 C/MAX7219
AR-MEGA2560	PLACA ARDUINO MEGA 2560
AR-MG996R	SERVO HIGH TORQUE P/ARDUINO
AR-MICROFONO	MODULO SENSOR DE SONIDO
AR-MOTORULN2003	KIT DE MOTOR Y PLACA C/U LN2003
AR-MP3SHIELD	PLACA MP3 P/ARDUINO C/USB Y SD
AR-MQ5SENSOR	SENSOR DE GAS MQ5 P/ARDUINO
AR-NANOV3.0	PLACA ARDUINO NANO V3.0
AR-NRF24L01	MODULO RF 2,4GHZ P/ARDUINO
AR-PROTO170	PLACA PROTOBOARD 170 PUNTOS
AR-RASPI3	RASPBERRY PI VERSION 3 MOD B
AR-RC522	RECEPTOR RFID
AR-RELAY2X12V	PLACA 2 RELAYS 12V P/ARDUINO



**AR-DHT11**



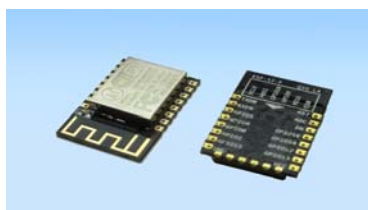
**AR-DISP320X240**

**AR-RELAY2X5V**  
**AR-RS232**  
**AR-RTC12C**  
**AR-SDCARDRW**  
**AR-SG90**  
**AR-SOP32/DIP32**  
**AR-STM32**  
**AR-UNOR3**  
**AR-USBTINYISP**  
**AR-W5500SHIELD**  
**CA-PROTO-HH**  
**CA-PROTO-HM**  
**CA-PROTO-MM**  
**MO-RK370CA24125**

PLACA 2 RELAYS 5V P/ARDUINO  
 PLACA SERIAL C/DB9 P/ARDUINO  
 MODULO REAL TIME CLOCK DS1307  
 PLACA READ/WRITE SD P/ARDUINO  
 SERVO MINI PARA ARDUINO  
 PLACA ADAPTADORA SOP32/DIP32  
 PLACA ARDUINO STM32  
 PLACA ARDUINO UNO R3  
 PLACA USBTINYISP ARDUINO  
 PLACA ETHERNET P/ARDUINO  
 CABLE PROTO HEM/HEM 10CM X40U  
 CABLE PROTO HEM/MACH 10CM X40U  
 CABLE PROTO MACH/MACH 10CM X40  
 MOTOR 3-12V 3960-16000RPM



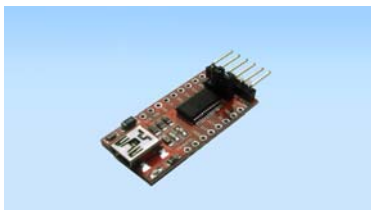
**AR-DUER3**



**AR-ESP8266**



**AR-FT232RL**



**AR-FT232RLMINI**



**AR-FUENTE**



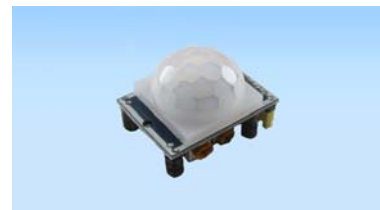
**AR-HC06**



**AR-HC06MINI**



**AR-HC-SR04**



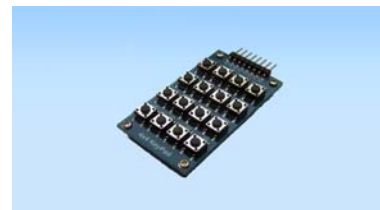
**AR-HC-SR501**



**AR-INFRA**



**AR-INFRA4**



**AR-KEYB4X4**



**AR-L293SHIELD**



**AR-L298SHIELD**



**AR-LEONARDOR3**



**AR-MATRIZ8X8**



**AR-MEGA2560**



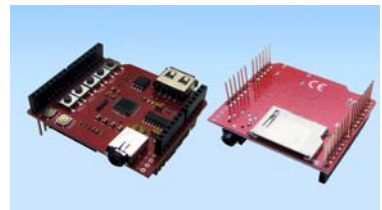
**AR-MG996R**



**AR-MICROFONO**



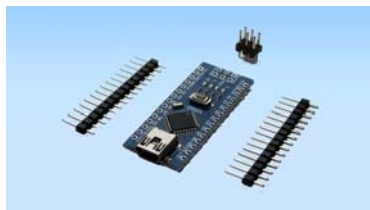
**AR-MOTORULN2003**



**AR-MP3SHIELD**



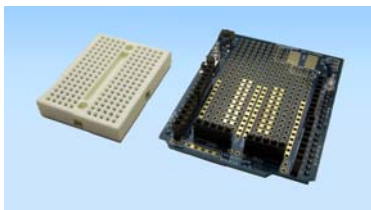
**AR-MQ5SENSOR**



**AR-NANOV3**



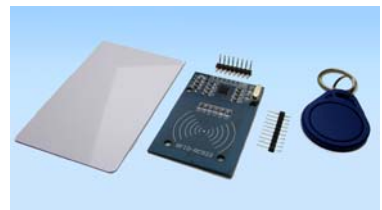
**AR-NRF24L01**



**AR-PROTO170**



**AR-RASPI3**



**AR-RC522**



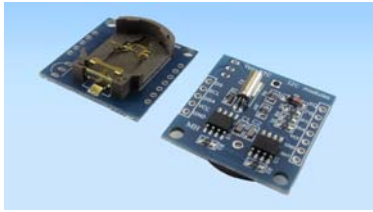
**AR-RELAY2X5V**



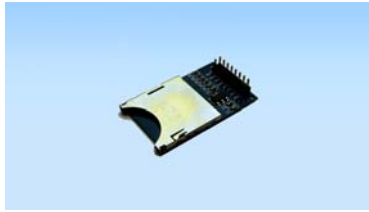
**AR-RELAY2X12V**



**AR-RS232**



**AR-RTC12C**



**AR-SDCARDW**



**AR-SG90**



**AR-SOP32DIP32**



**AR-STM32**



**AR-UNOR3**



**AR-USBTINYISP**



**AR-W5500SHIELD**



**CA-PROTO-HH**



**CA-PROTO-HM**



**CA-PROTO-MM**



**MO-RK370CA24125**