

## TABLILLAS PARA ARDUINO



GT-BARD-001	
<b>Leonardo R3 ATMEGA32U4</b>	
Clock Speed	16 MHz
Input Voltage (recommended)	7-12V
Controller	ATmega32u4
Operating voltage	5V
5V digital /analog port maximum permissible current	40 mA
SRAM	2.5 KB (ATmega32u4)
EEPROM	1 KB (ATmega32u4)
Flash Memory	32 KB (ATmega32u4) of which 4 KB used by the bootloader
3.3V digital / analog port maximum permissible current	50 mA

GT-BARD-002	
<b>UNO R3 ATmega328P ATmega16U2</b>	
Controller	ATmega328
Input Voltage (recommended)	7-12V
Digital IO pins	14 (of which 6 provide PWM output)
Analog input pins	6
DC Current per I/O Pin	40 mA
SRAM	2 KB (ATmega328)
Clock Speed	16 MHz
Operating voltage	5V
Input Voltage (limits)	6-20V
PWM channel	6

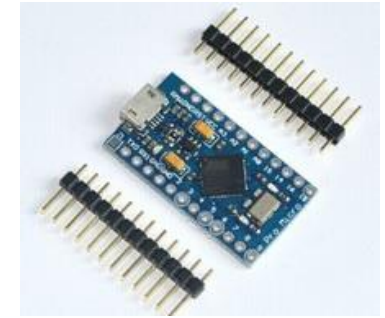
GT-BARD-003	
<b>Funduino UNO ATmega328P</b>	
<ul style="list-style-type: none"> <li>* Working voltage :3.3 V / 5 V is optional</li> <li>* Maximum current:500 mAh</li> <li>* Funduino support: 7-23 v input.</li> <li>* Funduino use external power supply:at most 2 a 5 v power supply.</li> <li>* More stable AD sampling</li> <li>* Easier to press the reset button</li> <li>* The expansion of the pin leads</li> </ul>	

GT-BARD-004	
<b>DUE R3 Board SAM3X8E 32-bit ARM Cortex-M3 Control Board</b>	
Input Voltage (recommended)	7-12V
Digital IO pins	54 (of which 12 provide PWM output)
Analog input pins	12
DC Current per I/O Pin	800 mA
SRAM	96 KB (two banks: 64KB and 32KB)
Operating voltage	3.3V
Clock Speed	84 MHz
Flash Memory	512 KB all available for the user applications



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GT-BARD-005	
ATMEGA328P-AU nano V3.0 R3 Board	
Controller	ATmega328
Input Voltage (recommended)	7-12V
Digital IO pins	14 (of which 6 provide PWM output)
Analog input pins	8
DC Current per I/O Pin	40 mA
SRAM	2 KB (ATmega328)
Clock Speed	16 MHz
Operating voltage (logic level)	5V

GT-BARD-006	
Mega 2560 R3	
Controller	ATmega2560
Input Voltage (recommended)	7-12V
Digital IO pins	54 (of which 15 provide PWM output)
Analog input pins	16
DC Current per I/O Pin	40 mA
SRAM	8 KB
Clock Speed	16 MHz
Operating voltage	5V
Input Voltage (limits)	6-20V
PWM channel	15
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 8 KB used by bootloader

GT-BARD-007	
Pro mini	
Controller	ATmega168
Input Voltage	3.35 - 12 V (3.3V model) or 5 - 12 V (5V model)
Digital IO pins	14 (of which 6 provide PWM output)
Analog input pins	8
DC Current per I/O Pin	40 mA
EEPROM	512 bytes
SRAM	1 KB
Operating voltage	3.3V or 5V (depending on model)
Clock Speed	8 MHz (3.3V model) or 16 MHz (5V model)
Flash Memory	16 KB (of which 2 KB used by bootloader)
PWM channel	6

GT-BARD-008	
Pro Micro	
Controller	Atmega32U4 AU
Input Voltage	5-12V
Digital IO pins	12 (of which 5 provide PWM output)
Analog input pins	4
DC Current per I/O Pin	40 mA
EEPROM	1KB
SRAM	2 KB
Operating voltage	5V
Clock Speed	16 MHz Quarzoszillator
Flash Memory	32 KB (of which 2 KB used by bootloader)



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## TABLILLAS PARA ARDUINO



GT-BARD-009	
Arduino Micro	
Controller	ATmega32u4
Operating Current	300mA
Input voltage (recommended)	7-12V
Digital IO pins	20
Analog input pins	12
EEPROM	1 KB (ATmega32u4)
Flash Memory	32 KB (ATmega32u4) of which 4 KB used by bootloader
Power supply	5V
PWM channel	7

GT-BARD-010	
Arduino mega ADK	
Controller	ATmega2560
Input Voltage	7-12V
Digital IO pins	40
Analog input pins	16pcs
DC Current per I/O Pin	40 mA
SRAM	8 KB
DC Current for 3.3V Pin	100 mA
Operating voltage	5V
PWM channel	14
Flash Memory	256 KB of which 8 KB used by bootloader

GT-BARD-011	
Arduino Duemilanove 2009	
Controller	AVRmega328-20PU
Input voltage (recommended)	7-12v
Digital IO pins	8
Analog input pins	6
DC Current per I/O Pin	40 mA
SRAM	1KB
Clock Speed	16MHz
Operating voltage	5V
Flash Memory	32 KB (the other 2k for bootloader)
PWM channel	6
Flash Memory	32 KB (the other 2k for bootloader)

GT-BARD-012	
Arduino Esplora	
Controller	Atmega32U4
SRAM	2.5 KB
EEPROM	1 KB
Operating voltage	5V
Clock Speed	16 MHz
Flash Memory	32 KB of which 4 KB used by bootloader
Weight	210g



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### GT-BARD-013

#### NUCLEO-F401RE STM32F401RE

- \*STM32 microcontroller with LQFP64 package
- \*Two types of extension resources
- \*Arduino Uno Revision 3 connectivity
- \*STMicroelectronics Morpho extension pin headers for full access to all STM32 I/Os
- \*Flexible board power supply
- \*Two push buttons: USER and RESET

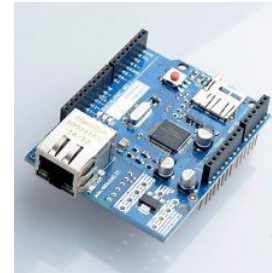
## SHIELD PARA ARDUINO



### GT-SHIARD-001

#### Ethernet W5100 shield

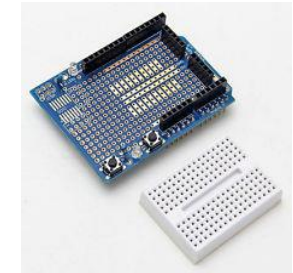
- \*Supported Arduino board:Compatible with the Arduino Duemilanove (168 or 328), Uno as well as Mega,1280/2560
- \*Network (IP) stack capable:TCP and UDP
- \*Other feature:Micro SD card slot
- \*Chip:Wiznet W5100 Ethernet Chip
- \*Allows your Arduino to connect to the Internet through an ethernet cable
- \*Weight:30g



### GT-SHIARD-002

#### Ethernet W5100 R3 shield

- \*Chip:Wiznet W5100 Ethernet Chip
- \*Network (IP) stack capable:TCP and UDP
- \*as Mega (1280/2560)
- \*Network (IP) stack capable:TCP and UDP
- \*Other feature:Micro SD card slot
- \*Chip:Wiznet W5100
- \*Supported Arduino board:Compatible with the Arduino Duemilanove (168 or 328), Uno as well Ethernet Chip
- \*Allows your Arduino to connect to the Internet through an ethernet cable
- \*Weight::100g



### GT-SHIARD-003

#### Prototype Shield With mini Breadboard

- \*Mini breadboard size4.4cm x 3.4cm x 1cm
- \*Breadboard type170 tie points
- \*Prototype Size:7cm x 5.5cm x 2cm
- \*Function: the circuit prototype
- \*1 reset button, 1 general use button, and 2 LED circuits
- \*Weight(including the mini breadboard):33g



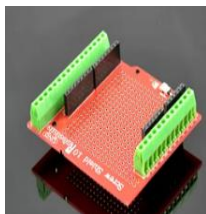
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<b>GT-SHIARD-004</b>
<b>MEGA ProtoShield V3 with mini Breadboard</b>
<ul style="list-style-type: none"> <li>*Arduino MEGA ProtoShield V3 expansion board with SOP28 SMD component package</li> <li>*Compatible with Arduino Mega ATmega1280 / MEGA2560</li> <li>*Pack Size :20cm x 15cm x 4cm</li> <li>*Weight :43g</li> </ul>



<b>GT-SHIARD-005</b>
<b>Proto Screw Shield Assembled</b>
<ul style="list-style-type: none"> <li>*Provide for the terminal IO, convenient port connection</li> <li>*3.81 Post -quality , reliable, convenient , durable</li> <li>*Combined with the Proto Shield, the middle can be used as a prototype expansion board</li> <li>*Double-sided PCB prototype extended area via connections can be soldered on both sides of the front element</li> <li>*There are patches on the back IO pads , easy fly line connection</li> <li>*The middle part of the small bread plates can be placed for easy expansion experiment</li> </ul>



<b>GT-SHIARD-006</b>
<b>L293D motor control shield</b>
<ul style="list-style-type: none"> <li>*Chip:Wiznet W5100 Ethernet Chip</li> <li>*Network (IP) stack capable TCP and UDP as Mega 1280/2560</li> <li>*Network (IP) stack capable:TCP and UDP</li> <li>*Other feature:Micro SD card slot</li> <li>*Chip:Wiznet W5100</li> <li>*Supported Arduino board:Compatible with the Arduino Duemilanove (168 or 328)</li> <li>*Ability:Can drive 4 DC motors or 2 stepper motors or 2 Servo</li> <li>*Pack size:8cm x 5cm x 2cm weight :36g</li> </ul>



<b>GT-SHIARD-007</b>
<b>Sensor Shield V1</b>
<ul style="list-style-type: none"> <li>*Can be fully compatibled with Arduino Mega 32 road Servo</li> <li>Motor Drive Shield interface</li> <li>*Bluetooth module communication interface</li> <li>*LCD serial and parallel interface</li> <li>*IIC interface Kinds of interface</li> <li>*Operating Voltage:5VDC</li> <li>*Input Voltage (recommended):7-12VDC</li> <li>*APC220 wireless rf modules communication interface</li> <li>*Weight::40g</li> </ul>



<b>GT-SHIARD-008</b>
<b>Sensor Shield V4</b>
<ul style="list-style-type: none"> <li>*Operating Voltage:5VDC</li> <li>*Input Voltage (limits):6-20VDC</li> <li>*Digital IO port:13 ports prepared to digital modules or servos</li> <li>*Buckled Communication Port:Selectable between I2C and UART</li> <li>*Analog IO Port:2.54 grid male pin header connections</li> <li>*Buckled Analog Port:Handy, solid connection to 6 Analog inputs with VCC/GND</li> <li>*Input Voltage (recommended):7-12VDC Weight:28g</li> </ul>



<b>GT-SHIARD-009</b>
<b>Sensor Shield V5</b>
<ul style="list-style-type: none"> <li>*Operating Voltage:5VDC</li> <li>*Input Voltage (limits):6-20VDC</li> <li>*Digital IO port:13 ports prepared to digital modules or servos</li> <li>*Buckled Communication Port:Selectable between I2C and UART</li> <li>*Input Voltage (recommended):7-12VDC</li> <li>*Buckled Analog Port:Handy, solid connection to 6 Analog inputs with VCC/GND</li> <li>*Analog IO Port:2.54 grid male pin header connections</li> <li>*Weight:28g</li> </ul>



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## SHIELD PARA ARDUINO



### GT-SHIARD-010

#### V5 Xbee Sensor Shield RS485 Bluetooth SD Card Module

- \* Extension of 14 digital IO ports (12 servo interface) and power;
- \* Six analog IO ports and power;
- \* One digital external power port terminal;
- \* Digital-port external power supply and an onboard power supply automatic switching;
- \* Dne External power input terminal and an input pin;
- \* Xbee/Bluetooth Bee Bluetooth wireless data transmission interface;
- \* APC220/Bluetooth V3 Bluetooth wireless data transmission interface;
- \* IIC/I2C/TWI interface;
- \* 3.3V output port;
- \* SD card module interface



### GT-SHIARD-013

#### Xbee sensor shield

- \*Output:3.3V output port
- \*Analog IO ports:6
- \*Digital IO ports:14
- \*Support Xbee (Xbee pro)
- \*Support RS485:Support Bluetooth
- \*Support APC220:Support SD card read/write
- \*Weight::45g



### GT-SHIARD-011

#### Sensor Shield V8

- \*Operating Voltage:5VDC
- \*Input Voltage (limits):6-20VDC
- \*Input Voltage (recommended):7-12VDC
- \*Pack Size:10cm x 10cm x 5cm
- \*Weight:30g



### GT-SHIARD-014

#### Google Android ADK USB Host

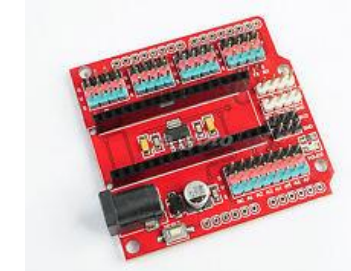
- \*Google android adk function:android phone: g1 nexus one:Arduino Uno 328
- \*Upgrading to android 2.3.4, tablet pc:Arduino Diecimila / Duemilanove 328
- \*Arduino Mega 1280:Arduino Mega 2560 (recommended)
- \*Pack Size:15cm x 12cm x 3cm
- \*Weight::45g



### GT-SHIARD-012

#### JoyStick Shield

- \*Supported board:Arduino UNO board
- \*Buttons:Four round buttons, 2 small buttons
- \*Working voltage:3.3V or 5V eg. STM32
- \*Interface:nRF24L01 RF, Nokia 5110 LCD, Bluetooth module, I2C communication
- \*Modules:USB to TLL, Power Modules,RS232 TO TTL
- \*Weight::38g
- \*Pack Size:15cm x 12cm x 3cm



### GT-SHIARD-015

#### Nano shield

- \*AREF output:3.3V output
- \*Expand all digital IO:6 PWM Pin
- \*Function: expand all digital IO
- \*Main features:I2C expansion Pin
- \*Design specially for Arduino Nano
- \*Expand DC power interface for NANO USB interface
- \*Weight:25g
- \*Pack size :10cm\*10cm\*10cm



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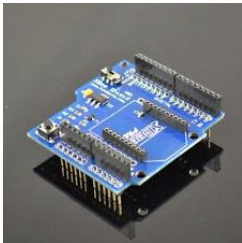
## SHIELD PARA ARDUINO



<b>GT-SHIARD-016</b> <b>XBee Zigbee Wireless Transport Shield</b>
<ul style="list-style-type: none"> <li>*Support Any XBee module will work with the shield.</li> <li>*XBee-PRO modules work in the ISM 2.4 GHz frequency band.</li> <li>*The MaxStream's XBee (1 mW) Zigbee module is pin-compatible</li> <li>*The provision of critical data between devices reliable transmission</li> <li>*Low power consumption</li> <li>*Pack Size:6cm x 6.2cm x 2cm</li> <li>*Weight::45g</li> </ul>



<b>GT-SHIARD-019</b> <b>L298P Motor Shield</b>
<ul style="list-style-type: none"> <li>*The logical part of the input voltage VD: 5 v</li> <li>*The driving part of the input voltage VS: VIN input from 12 v to 6.5 v, PWRIN input from 35 v to 4.8 v</li> <li>*The logical part working current I<sub>ss</sub>: &lt; 36 ma</li> <li>*The driving part of the working current I<sub>o</sub>: &lt; 2 a</li> <li>*The maximum dissipation power: 25 w (T = 75 °C)</li> <li>*The control signal input level: high level &lt; Vin &lt; 5 V, 2.3 V low level &lt; Vin &lt; 0.3 V to 1.5 V</li> <li>*Working temperature: - 25 + 130 °C</li> <li>*Hardware interface: 5.0 mm spacing terminal</li> <li>*The belt buckle, and can manage access control signals</li> </ul>



<b>GT-SHIARD-017</b> <b>Bluetooth shield V03</b>
<ul style="list-style-type: none"> <li>*Coupled with Arduino Bluetooth Bee Bluetooth module, and other Bluetooth devices can communicate wirelessly.</li> <li>*Coupled with xbee module, you can achieve two or more sets of communication between Arduino or Arduino and PC communications</li> <li>*Weight::45g</li> </ul>



<b>GT-SHIARD-020</b> <b>L298P Motor Drive Shield Expansion Board For Arduino UNO R3</b>
<ul style="list-style-type: none"> <li>Logical part of the input voltage VD: 5V</li> <li>-driven part of the input voltage VS: VIN Input 6.5 ~ 12V, PWRIN 4.8 ~ 35V input</li> <li>Logical part of the work current I<sub>ss</sub>: &lt;36mA</li> <li>-driven part of the operating current I<sub>o</sub>: &lt;2A</li> <li>Maximum power dissipation: 25W (T = 75 Celsius)</li> <li>Control signal input level: High 2.3V &lt;Vin &lt;5V, low -0.3V &lt;Vin &lt;1.5V</li> <li>Working temperature: -25 + 130 Celsius</li> <li>Hardware interface: 5.0mm pitch terminal</li> <li>Drive Type: Dual power H-bridge driver</li> <li>Pin occupancy: D4 ~ D7 direct drive motor</li> <li>Supports PWM / PLL mode motor speed control</li> </ul>



<b>GT-SHIARD-018</b> <b>Touch key USB SHIELD</b>
<ul style="list-style-type: none"> <li>*Item specifics</li> <li>*Operating Temperature:1</li> <li>*Dissipation Power:1</li> <li>*Type:Logic ICs</li> <li>*Brand Name:OWEIS</li> <li>*Application:Computer</li> <li>*Supply Voltage:1</li> <li>*Model Number:Touch key USB SHIELD</li> <li>*Pack Size:11cm x 11cm x 2cm</li> <li>*Weight:120g</li> </ul>



<b>GT-SHIARD-021</b> <b>Data Logging SD Card Socket Shield with RTC Real Time Clock</b>
<ul style="list-style-type: none"> <li>SD card interface works with FAT16 or FAT32 formatted cards. 3.3v level shifter circuitry prevents damage to your SD card</li> <li>Real time clock (RTC) keeps the time going even when the Arduino is unplugged. The battery backup lasts for years</li> <li>Included libraries and example code for both SD and RTC mean you can get going quickly Prototyping area for soldering connectors, circuitry or sensors.</li> <li>Onboard 3.3v regulator</li> <li>Works with Arduino UNO, Duemilanove, Diecimila, Leonardo or ADK/Mega R3 or higher. ADK/Mega R2 or lower are not supported</li> </ul>



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