



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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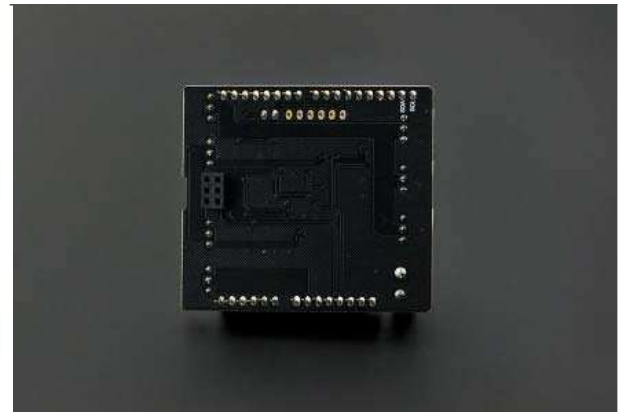
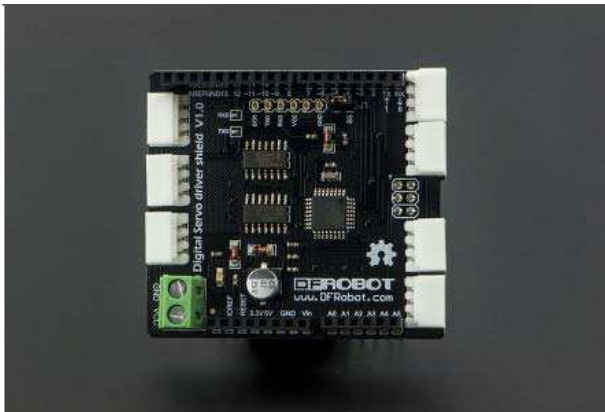
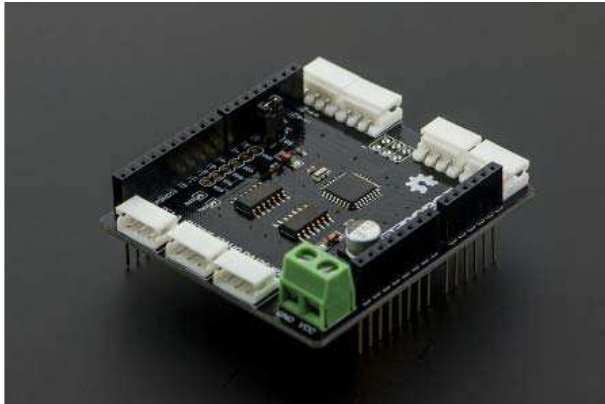
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DFROBOT
DRIVE THE FUTURE



Smart Arduino Digital Servo Shield for Dynamixel AX

SKU:DRI0027

INTRODUCTION

Some day,a guy want to make a robotic dog as a gift to his little son.He brought some digital servos, a microcontroller,Lipo battery...Then he found it hard to drive these smart servos with Arduino processor! So we developed a driver board that can easily & quickly drive the digital servos such as AX-12 with Arduino directly! Just like using Arduino official servo library.

With this smart arduino digital servo shield and Dynamixel AX series servos, It's quite easy for you to drive multi servos with daisy chain connection with an Arduino board such as Arduino Uno, and build your robotic dog, hexapod with powerful servos.

This shield Integrates a half duplex circuit inside. That means the transmit wire from UART is connected to all of the AX-12 servos. If a command sending over the wire without servo ID, all of the servos will receive the command, and if the message contains the destination servo ID then only one servo, matching that ID number, will receive it.

Because of the servo can be linked by serial bus, which can link up to 200+ servos. Each unit can feedback its position, rotation velocity, torque, current, motor temperature and so on. It can do rotating all round, and the velocity can be controlled, just act as a gear motor. This feature enables it to work as a motor of wheeled robots, or tracked robots.

NOTE: The new batch servo AX-12 requires a default reset before altering working method. You can see it was written in the sample sketch.

APPLICATIONS

- Education
- Robot Arm
- Humanoid Robot
- Hexapod Robot
- Any other servo driven application

SPECIFICATION

- MCU:Atmega8
- Power Supply:6.5-12V
- Arduino Uno R3 layout format
- Supporting Dynamixel AX series servos
- SPI interface (Digital 10,11,12,13)
- Friendly using for the primary user
- UART interface for deeper development
- 7 channels for servo connecting
- A half duplex circuit inside
- Board surface:Immersion Gold
- Size: 59x53mm (2.32x2.09")

SHIPPING LIST

- Smart Arduino Digital Servo Shield for Arduino x1