4Duino-24

Datasheet

Revision 1.10

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Contents

1. Description 4
2. Features 0
3. Before Getting Started 0
   3.1. STEP1 - Insert Headers 0
   3.2. STEP2 - Before Soldering 0
   3.3. STEP3 - Soldering 0
   3.4. STEP4 - Check Solder Joints 0
4. Powering the 4Duino 0
   4.1. USB Power 0
   4.2. DC Barrel Jack 0
   4.3. Powering from the Headers 0
   4.4. The Power Supplies 0
5. Block Diagram 0
6. Hardware Overview 0
7. 4Duino Pin/Button Description 0
   7.1. H1 - Pin Description 0
   7.2. H2 - Pin Description 0
   7.3. H3 - Pin Description 0
   7.4. H4 - Pin Description 0
   7.5. H5 - Pin Description 0
   7.6. ICSP - Pin Description 0
   7.7. Button Description 0
   7.8. 4Duino Pins Summary 0
8. Module Features 0
   8.1. ATmega32U4 Microcontroller 0
   8.2. PICASO Processor 0
   8.3. ESP8266 Wi-Fi Module 0
   8.4. SD/SDHC Memory Cards 0

8.5. FAT16 0
9. Display/Module Precautions 0
10. Hardware Tools 0
10.1. micro-USB Cable 0
10.2. 4D Programming Adaptor 0
11. Programming the 4Duino 0
11.1. Arduino IDE 0
11.2. Workshop4 IDE 0
11.3. 4D Arduino - Basic Graphics 0
11.4. 4D Arduino - Extended Graphics 0
11.5. 4D Arduino - Genie Graphics 0
11.6. Downloading SPE to PICASO 0
11.7. PmmC/Firmware Programming 0
11.8. ESP WiFi Firmware Programming 0
12. Starter Kit 0
13. Mechanical Details 0
14. Schematic Details 0
15. Specifications 0
16. Legal Notice 0
16.1. Proprietary Information 0
16.2. Disclaimer of Warranties & Limitations of Liabilities 0

1. Description

The 4Duino is an Arduino™ compatible display module with a built-in 240x320 resolution TFT LCD Display with Resistive Touch, and Wi-Fi capabilities.

At the heart of 4Duino is an ATmega32U4 8-bit microcontroller from Atmel. The same microcontroller is found on the popular Arduino Leonardo. 4Duino features a 2.4" colour TFT LCD, with resistive touch. It is powered by the feature-rich 4D Systems PICASO Graphics Processor, which offers an array of display functionality and options for any Designer/ Maker. In addition, the 4Duino features the popular ESP8266 Wi-Fi module which is pre-programmed with the AT command set firmware, enabling the 4Duino to have many Wi-Fi capabilities right out of the box.

The 4Duino also features an on-board microSD connector, and headers in the layout of an Arduino, including power pins (5V, 3.3V, GND and VIN), 20 digital IO pins, of which 7 can be used PWM outputs and 12 pins have Analog input capabilities.

The 4Duino is easily programmable with the Workshop4 IDE and its 3 different 4Duino-based development environments.

The Workshop4 IDE has new functionally added, and is now able to program the onboard Atmel processor using the popular Arduino programming language, just like the popular Arduino IDE, but with the added dimension of graphics - with the aid of the 4D Systems PICASO GPU. Creating Arduino-based GUIs does not get any easier.

The 4Duino design has incorporated a TFT LCD Touchscreen Display and Wi-Fi solution to provide a flexible and hugely capable hardware platform. This will enable Makers and Designers to significantly improve the quality and the scope of their projects, and do so rapidly with the aid of the 4D Systems Workshop4 IDE.

The 4Duino is *the* best board to get started with electronics design, projects, and education and is perfectly suitably suited to both beginners and experts alike.

Note

Arduino is a trademark of Arduino Team and all references to the word "Arduino" or the use of its logo/marks are strictly about the Arduino product, and how this product is compatible with the aspect of the product but is not associated with the Arduino Team in any way.