DVK571 Expansion Board

User Manual

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Version update records

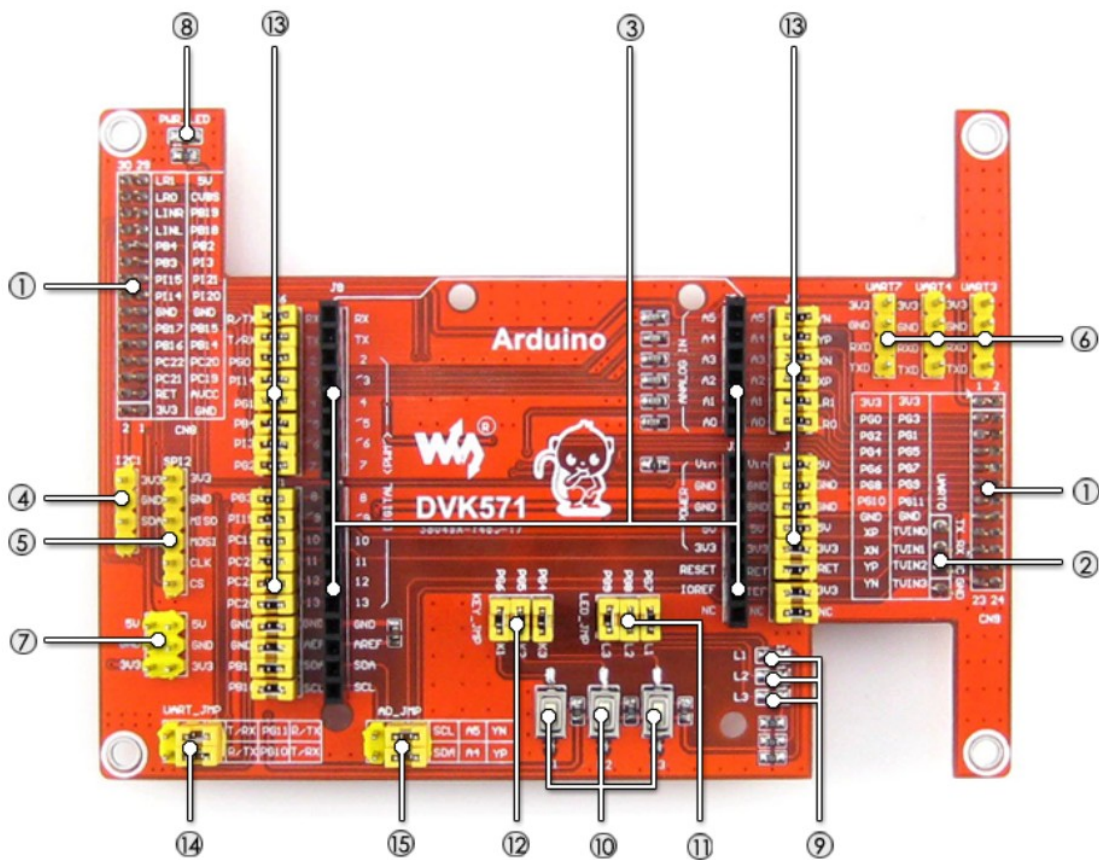| Version	Date	Description
V1.0	2014.04.12	Initial Release

Contents

1.Overview

DVK571 is a functional expansion board based on Cubietruck, compatible with Arduino shield, provide various interfaces including I2C, SPI, UART, etc, for easily connecting to various of modules. This expansion board must use with Cubietruck, can't be used separately!

2.What's on board

2.1.   Interface

1、 CUBIETRUCK Interface
     For connecting CUBIETRUCK
2、 UART0 Interface
     For easily connecting various serial port modules
3、 Arduino Interface
     For connecting Arduino shields

4、 I2C Interface
　　For connecting I2C modules
5、 SPI Interface
　　For connecting SPI modules
6、 UART Interface
　　 For connecting UART modules
7、 5V/3.3V Power I/O Interface
　　Usually used as power output, also common-grounding with other user board

2.2.　Component

8、 Power indicator
9、 User LED
　　3 Red User LED。
10、　　User Key
　　3 User Key

2.3.　Jumper

11、　　User LED Jumper
　　Short jumper: access to specified I/O;
　　Open jumper: use cable to access to custom I/O;
12、　　User Key Jumper
　　Short jumper: access to specified I/O;
　　Open jumper: use cable to access to custom I/O;
13、　　Arduino Jumper
　　It can be connected alternatively when connect with other Ardunio boards.
14、　　Arduino UART Jumper
　1) When selecting PG11-RTX and PG10-T/RX，the Arduino shield can be connected to Cubietruck；
　2) When selecting T/RX-PG11 and R/TX-PG10，you can connect with an Arduino board which can communicate with Cubietruck.
　　Note：Factory default is function 1).
15、　　Arduino AD Jumper
　1) When selecting A5-YN and A4-YP, it means A5, A4 connects to YN, YP of Cubietruck correspondingly, that is connecting to AD module of Arduino;
　2) When selecting SCL-A5 and SDA-A4, it meansA5, A4 connects to Cubietruck SCL, SDA correspondingly, that is connecting to I2C module of Arduino.
　　Note: Factory default is function 1).