



Overview

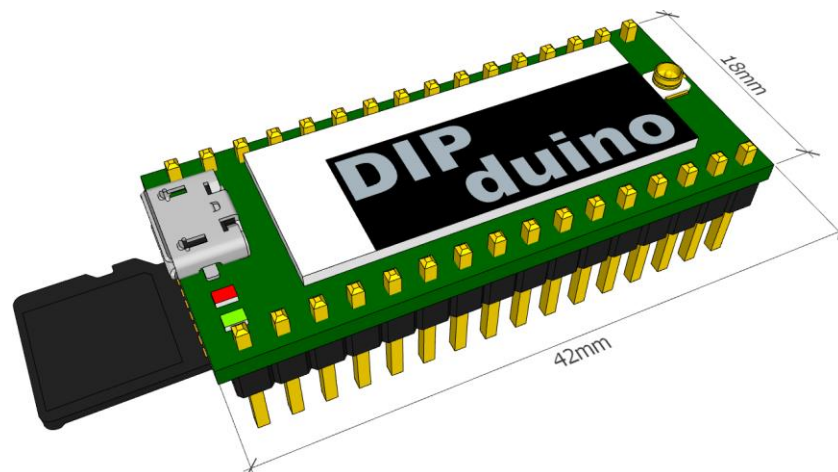
DIPduino is an Arduino-compatible development board based on Atmel ATmega with embedded 2.4GHz ZigBee transceiver. The unit is equipped with a OLED display, a microSD card reader, a serial FTDI port, SRAM, USB and pin power supply, LEDs, and a stabilized 3V and 3.6V power output.

DIPduino crams many useful interfaces all into one easy-to-use DIP32 package. It is most loaded with features breakout boards of today's market of such devices.

Features

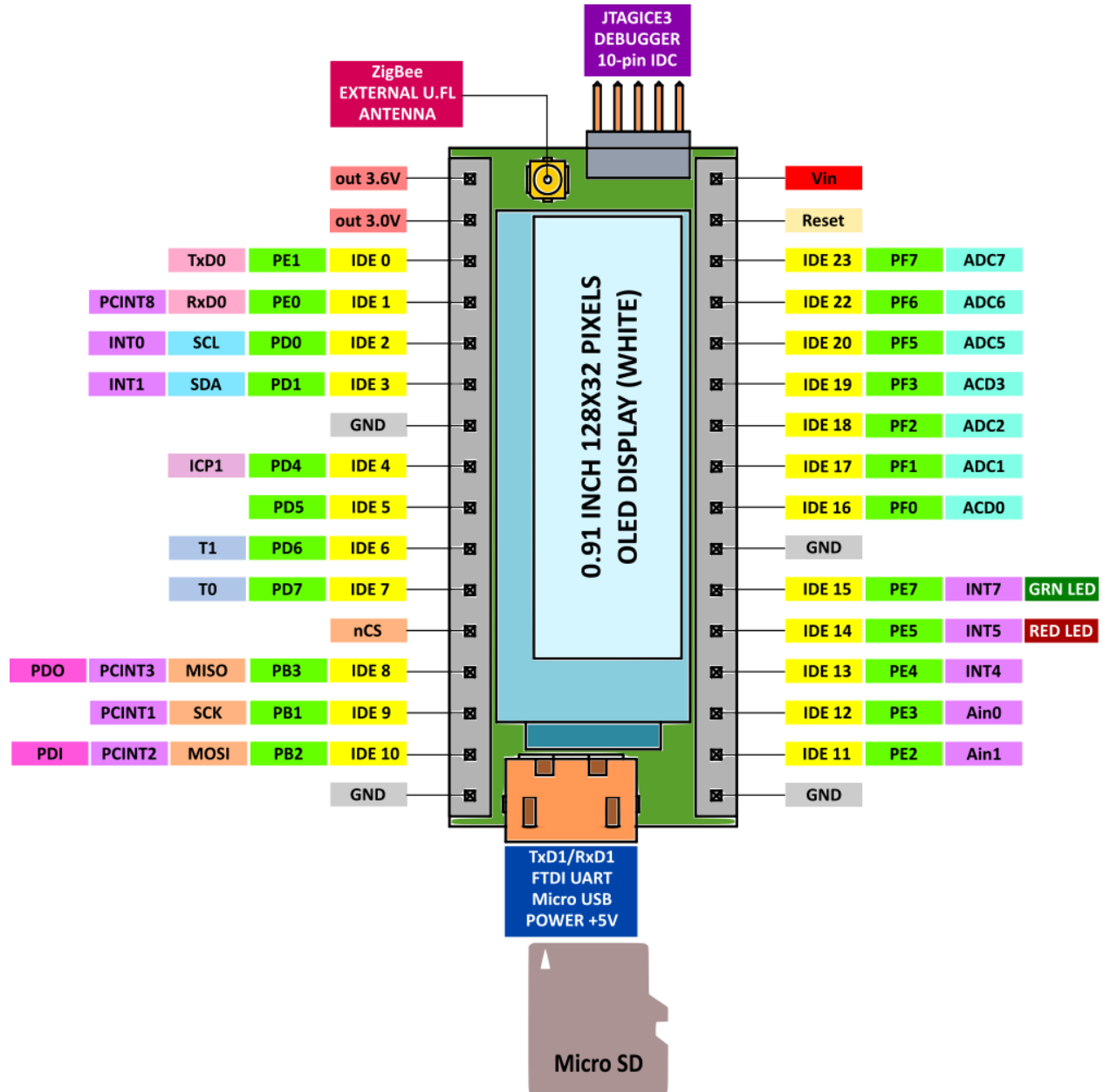
- ATmega1284RFR2 or ATmega644RFR2 at 16MHz with 2.4GHz ZigBee Transceiver.
- 24 Digital and 7 Analog Pins accessible from Arduino IDE.
- 128x32 pixels monochrome SPI OLED display (UG-2832HSWEG04) on dedicated CS pin.
- 1Mbit SPI Serial SRAM (23LC1024) on dedicated CS pin.
- Micro SD card slot dedicated CS pin.
- Additional programmable SPI CS pin for external devices.
- Serial FTDI port on USART1 with 5V power input. Allows you to power your SOC directly from USB cable. Compatible with Arduino bootloader.
- Full set of interfaces on pins:
 - Master/Slave SPI Serial Interface;
 - Serial USART (USART0) independent from bootloader port of Arduino IDE;
 - 2-wire Serial Interface (TWI/I2C);
 - 10-bit, 330 KSamples/s ADC.
- Stabilized 3V and 3.6V Power Out.
- Green and Red LEDs (DIO14, DIO15).
- U.FL connector for external ZigBee antenna.

Dimensions





DIPDuino Pinouts



Support

For more information, projects, libraries, code examples, schematics and support please visit <http://DIPDuino.com>