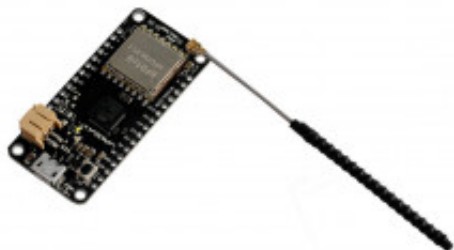


LoRa32u4 II 868MHz SX1276 Lora Module



Produktkode: 458

Tilgjengelighet: 1

Custom Field 5 (Location): N 3

Pris: kr. 220,00

Short Description

LoRa32u4 II 868MHz SX1276 Lora Module Development Board IOT LiPo HPD13 / Antena

Beskrivelse

DIYmall LoRa32u4 II Lora Development Board Module IOT LiPo Atmega328 SX1276 HPD13 868MHZ with Antenna for Arduino LoraWan

Description:

LoRa32u4 II is a light and low consumption board based on the Atmega32u4 and HPD13 868MHZ LoRA module and an USB battery charging circuit. Ideal for creating long range wireless networks that can exceed 2.4 GHz 802.15.4 and similar, it is more flexible than Bluetooth LE, does not require high power unlike WiFi and offers long range.

The ATmega32u4 is clocked at 8 MHz and 3.3 V. This chip has 32 K of flash, 2 K of RAM and built-in USB to Serial communication, debugging and programming capabilities without the need for an external FTDI chip, it can also act as an HID device (mouse, keyboard, USB MIDI device, etc).

This board is also equipped with a LiPo and Liion charging circuit and a standard battery interface. It is fully compatible with Arduino. A white user led is tied to pin 13. An orange LED is used for charging status.

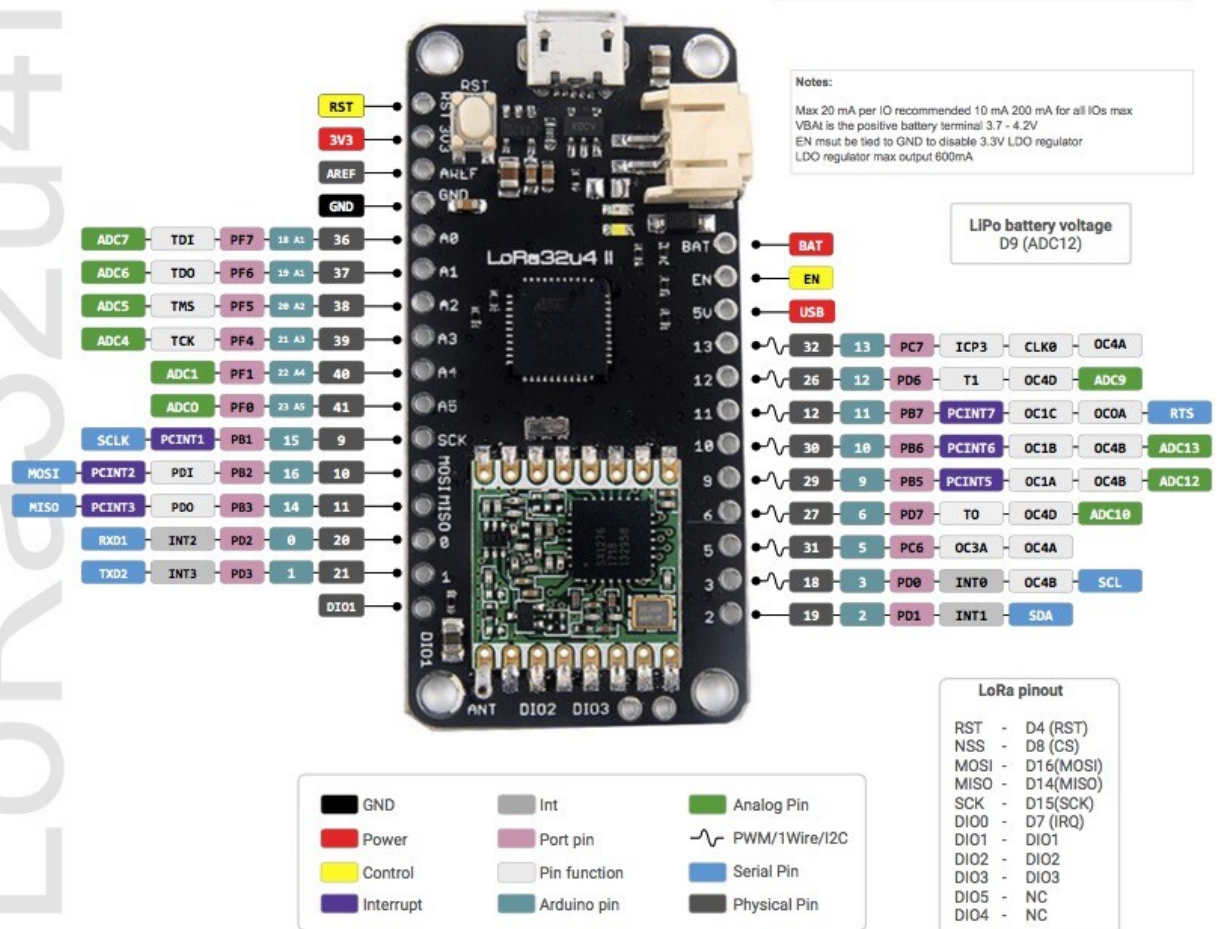
HPD13 wireless module, using high-performance, highly integrated RF transceiver chip SX1276 design. Advanced LoRa™ spread spectrum communication technology to ensure that the module communication distance and anti-jamming capability greatly improved, and also achieved a very low current consumption. In the LoRa™ mode, the HPD13 provides higher reception sensitivity performance, more robust anti-jamming capability, and improved communication distance and reliability compared to the same transmit and receive modules on the market. In normal (G) FSK mode, it also provides industry-specific receiver sensitivity, as well as very high communication rates.

ATmega32u4 @ 8MHz with 3.3V logic/power
3.3V regulator with 500mA peak current output
USB native support, comes with USB bootloader and serial port debugging
Built in 100mA lipoly charger with charging status indicator LED
Reset button

HPD13:

Receive current: 10 ~ 14mA
Interface Type: SPI
Operating temperature: -40 ° C to + 85 ° C
Digital RSSI function
Automatic frequency correction
Automatic gain control
Radio wake-up function
Low voltage detection and temperature sensor
Fast wakeup with frequency hopping
Highly configurable packet handlers

LoRa32u4II Pinout Diagram



Document link: Pls Contact us.

user name : diymall password diymall

2DBi IPEX to SMA Antenna 868MHZ 915MHZ U.FL to Female SMA I-PX Extension Pigtail Cable for Lora32u4 II Lora Module

Description:

Frequency:850-960/1710-1880MHZ

Type: U.FL to Female SMA

Impedance: 50 ohms

Gain: 2DBi

868MHZ Spring IPX IPEX 1.13 Antenna Built-in 2DBi 12CM for LORA32U4

Board Lora Module

Frequency: 868MHZ

Gain: 2DBi

Standing wave ratio / S.W.R.?2.0

Impedance: 50?

Max Input power: 50W

RF Cable: RG1.13 cable

Cable OD: 1.1mm / 0.43"

Length:12cm / 4.72"

868MHZ 915MHZ FPC Antenna 1.13 IPEX Interface for Lora Module Lora32u4 II

Description:

868MHZ 915MHZ FPC Antenna 1.13 IPEX Interface for Lora Module

Support

[Arduino-bibliotek](#)

<https://github.com/kersing/node-workshop/blob/master/lora32u4.md>

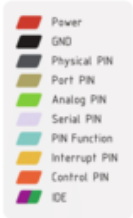
<https://www.youtube.com/watch?v=w6ygDCTSQug>

<https://learn.adafruit.com/adafruit-feather-32u4-radio-with-rfm69hcx-module/pinouts>

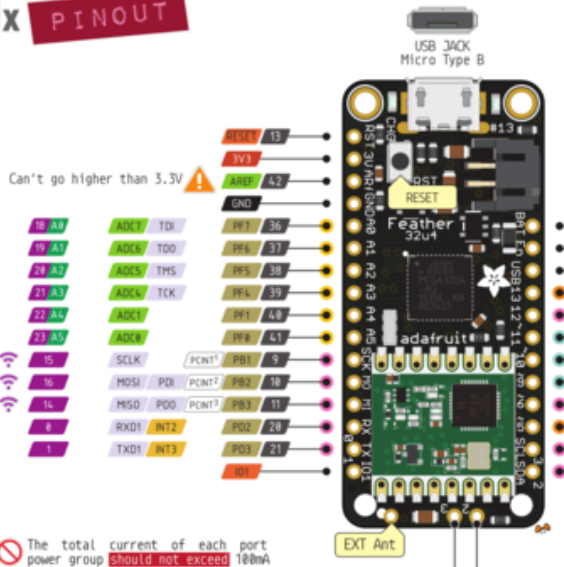
pinout

feather

32u4 RFMx PINOUT



PM Pin
Port power group



RFM Module control

25	PDL	ICP1	ADCS	6	RST
1	PEL	INT6	ANAL	7	RQ
28	PBL	PCNT*	ADCU	8	CS

Used by the RFM radio module tool!



⊘ The total current of each port power group **should not exceed** 100mA

⚠ **Absolute** MAX per pin 20mA, 10mA recommended

⊘ **Absolute** MAX 200mA for the entire package

i IO1, IO2 and IO3 are RFM Module GPIO

VBUS Connected to 5V USB Port **Absolute** MAX 500mA

VBAT It's the positive voltage from to JST Batt Jack

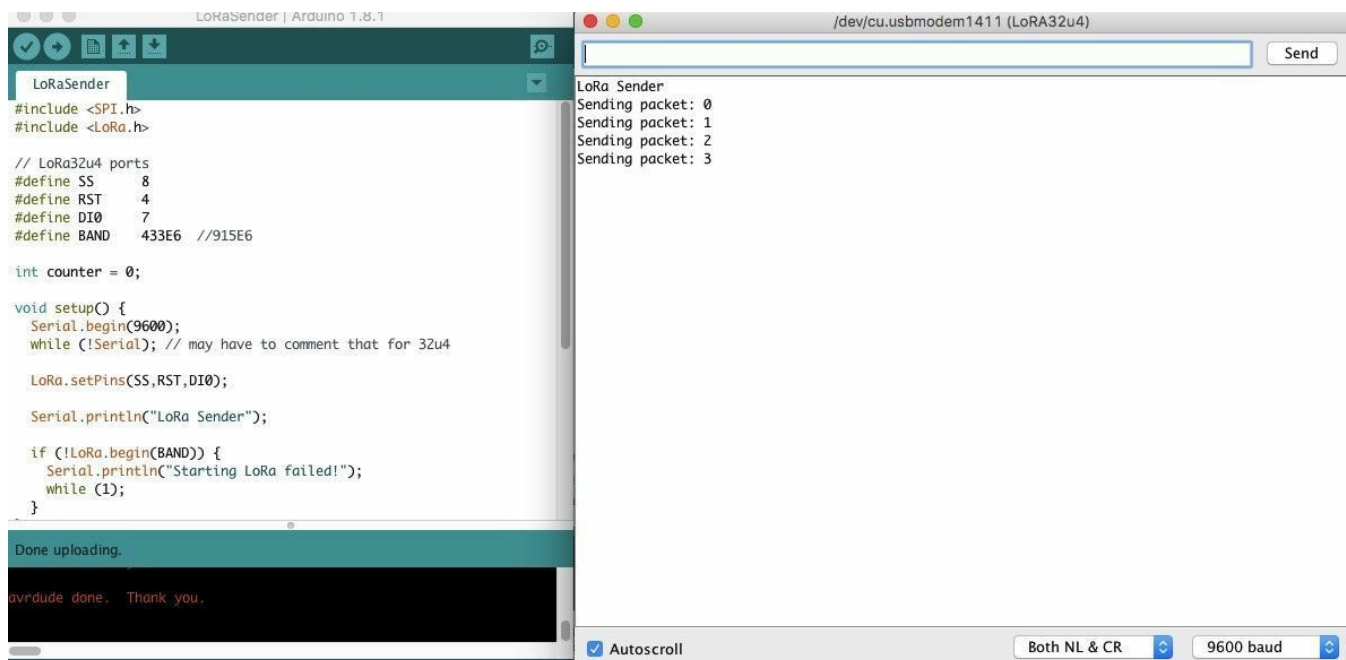
3V3 3V3 output from regulator **Absolute** MAX 400mA



<https://www.adafruit.com/product/3078>

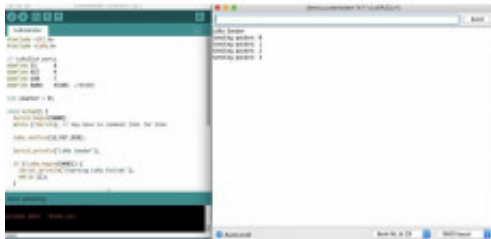
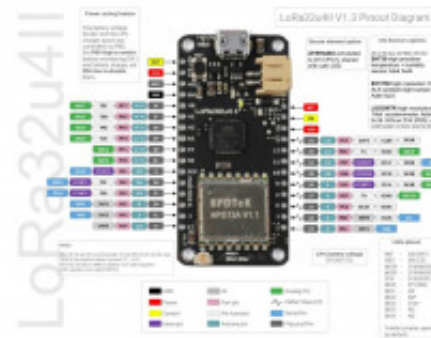
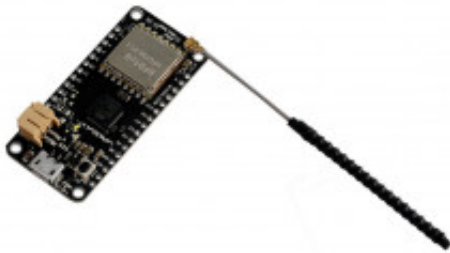
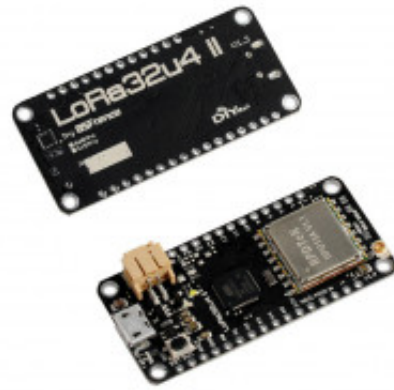
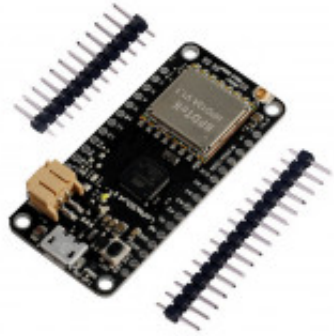


info



	Europe	North America	China	Korea	Japan	India
Frequency band	867-869MHz	902-928MHz	470-510MHz	920-925MHz	920-925MHz	865-867MHz
Channels	10	64 + 8 +8	In definition by Technical Committee	In definition by Technical Committee	In definition by Technical Committee	In definition by Technical Committee
Channel BW Up	125/250kHz	125/500kHz				
Channel BW Dn	125kHz	500kHz				
TX Power Up	+14dBm	+20dBm typ (+30dBm allowed)				
TX Power Dn	+14dBm	+27dBm				
SF Up	7-12	7-10				
Data rate	250bps- 50kbps	980bps-21.9kbps				
Link Budget Up	155dB	154dB				
Link Budget Dn	155dB	157dB				

Product Gallery



	Europe	North America	China	Korea	Japan	India
Frequency band	867-868MHz	902-928MHz	475-510MHz	920-925MHz	920-925MHz	867-868MHz
Channels	10	84 + 8 + 8				
Channel BW Up	125/250kHz	125/800kHz				
Channel BW Dn	125kHz	500kHz				
TX Power Up	+16dBm	+20dBm typ (+30dBm allowed)				
TX Power Dn	+14dBm	+27dBm				
SF Up	7-12	7-18				
Data rate	250bps-50kps	960bps-21.8kps				
Link Budget Up	155dB	154dB				
Link Budget Dn	155dB	157dB				