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 LoRaTM 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 LoRaTM 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

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 powet: 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

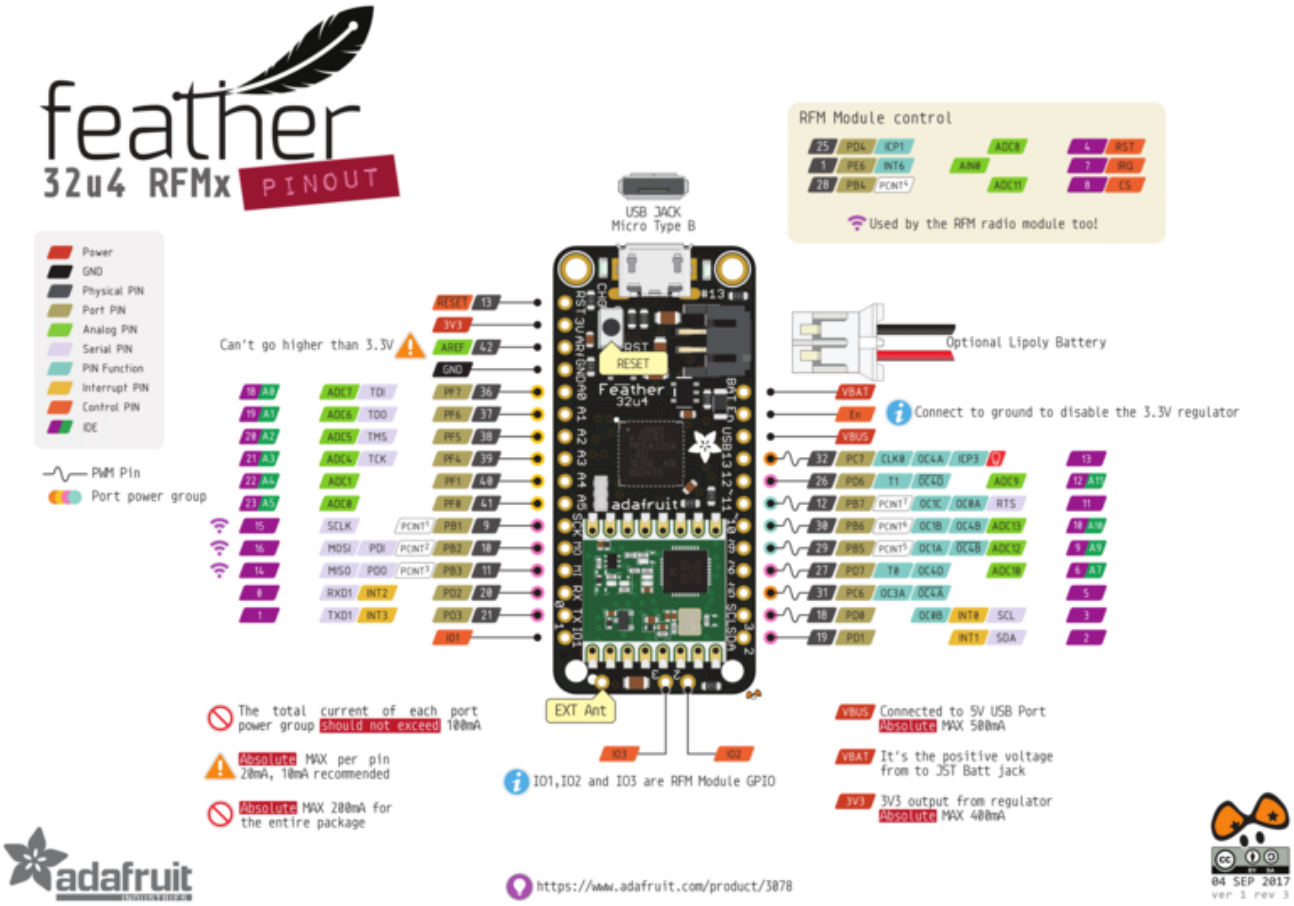
Support
Arduino-bibliotek

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

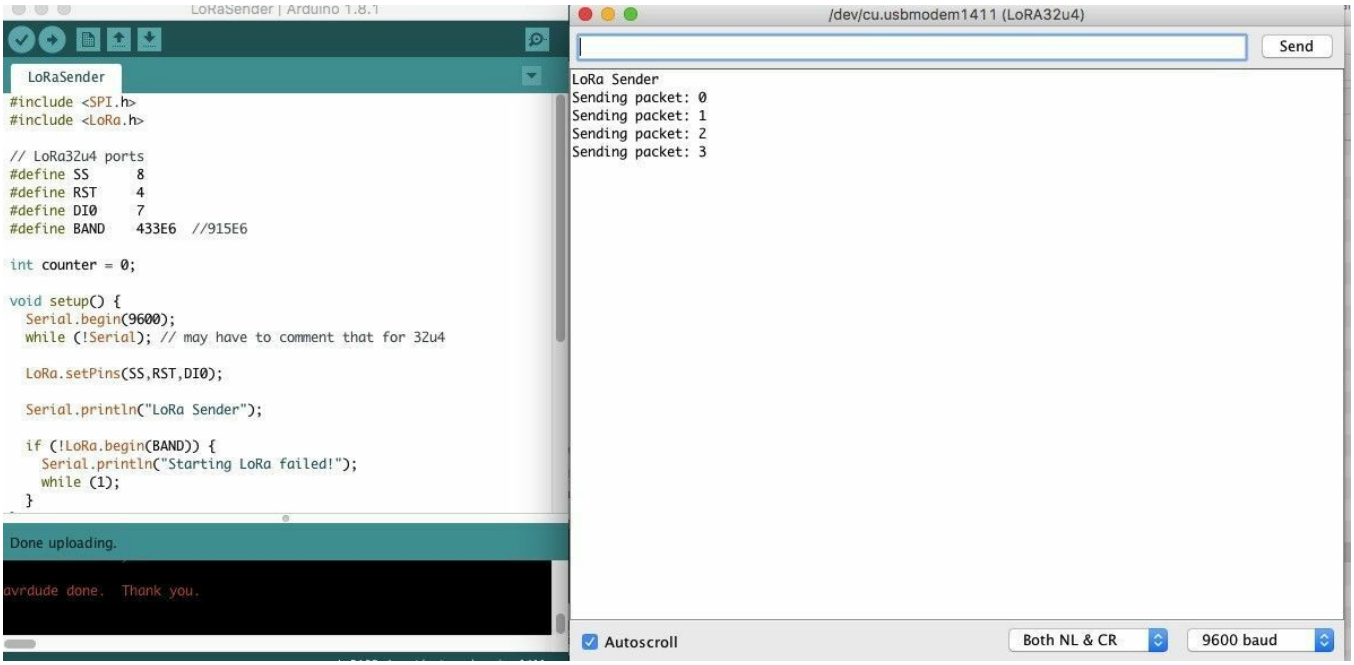
https://www.youtube.com/watch?v=w6ygDCTSQug

https://learn.adafruit.com/adafruit-feather-32u4-radio-with-rfm69hcw-module/pinouts

pinout

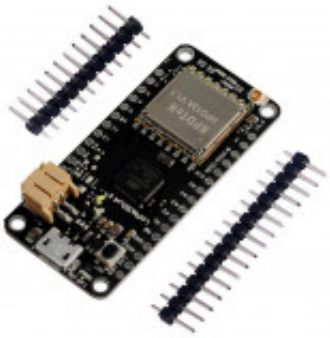

feather
32u4 RFMx
PINOUT
RFM Module control
Used by the RFM radio module too!
USB JACK
Micro Type B
Power
GND
Physical PIN
Port PIN
Analog PIN
Serial PIN
PIN Function
Interrupt PIN
Control PIN
IDE
PWM Pin
Port power group
Can't go higher than 3.3V
Optional Lipoly Battery
Connect to ground to disable the 3.3V regulator
EXT Ant
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
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
04 SEP 2017
ver 1 rev 3

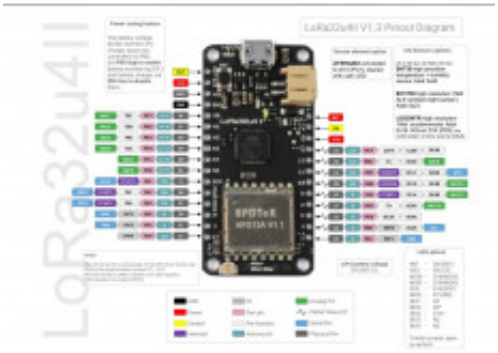
info

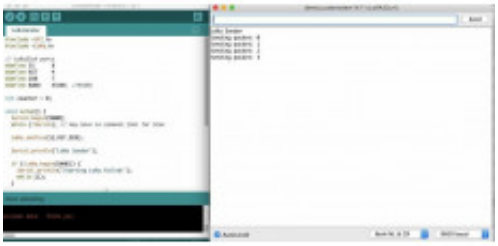


	Europe	North America	China	Korea	Japan	India
Frequency band	867-869MHz	902-928MHz	470-510MHz	920-925MHz	920-925MHz	865-867MHz
Channels	10	64 + 8 +8	In definition by Technical Committee	In definition by Technical Committee	In definition by Technical Committee	In definition by Technical Committee
Channel 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-21.9kpbs				
Link Budget Up	155dB	154dB				
Link Budget Dn	155dB	157dB				

Product Gallery







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