LoRa32u4 II 868MHz SX1276 Lora Module



Produktkode: 326aa **Tilgjengelighet:** Opp til 1 mnd leveringstid **Lager :** N 3

Pris: kr. 220,00

Short Description

LoRa
32u4 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

	RST		stes: ax 20 mA per IO recommended 10 mA 200 mA for all IOs max At is the positive battery terminal 3.7 - 4.2V I msute biled to GND to disable 3.3V LDO regulator XD resident max undust 600m.
ADC7 TOI PF7 14 ADC6 TD0 PF6 19 ADC5 TMS PF5 28	AREF - O ANLEF -		AT D9 (ADC12)
ADC4 TCK PF4 22 ADC1 PF1 22 ADC0 PF6 23 SCLK PCINT1 PB1 1 MOSI PCINT2 PD1 PB2 1 HIS0 PCINT3 PD0 PB3 1 RXD1 INT2 PD2 1 TXD2 INT3 PD3 2	A 39 A 3 A 40 A 41 A 41 A A 5 5 9 A 5 5 9 A 5 5 9 A 6 10 A 5 5 9 A 6 10 A 7 10 A 7 1		32 13 PC7 ICP3 CLK0 OC4A 32 13 PC7 ICP3 CLK0 OC4A 36 12 PD6 T1 OC4D ADC9 12 11 PB7 PCINT7 OC1C OC0A 30 10 PB6 PCINT6 OC1B OC4B A 89 9 PB5 PCINT5 OC1A OC4B A 82 9 PB5 PCINT5 OC1A OC4B A 83 5 PC6 OC3A OC4A ADC10 33 PD0 INT0 OC4B SCL 9 2 PD1 INT1 SDA
	GND In Power Processing Control Pri	t Analog Pin ort pin -V- PWM/1Wir n function Serial Pin	LoRa pinout RST - D4 (RST) NSS - D8 (CS) MOSI - D16(MOSI) MISO - D14(MISO) SCK - D15(SCK) DIO0 - D7 (IRQ) DIO1 - DIO1 DIO2 - DIO2 DIO3 - DIO3 DIO5 - NC

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

info

Product Gallery









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Frequency band	887-869092	962-9284942	478- 5104Hz	920- 925MHz	920- R25MPtr	865- 8571096
Channels	10	84 - 5 -5				
Channel BW Up	128/290kHz	125/800bHz				
Channel BW De	125696	SOORHE	1	-	1	1
TX Power Up	+10dBes	+30aBm typ (+30aBm altored)	and the	Cal Cana	on Cana	and and
TX Power De	ritiden	-2748-1	1	1	1	1
SF Up	T-12	7-18	8	8	8	8
Data sate	2505pe-50kips	9985pe-21.8kplm	1	1	1	1
Link Budget Up	155:60	15440	4	8	8	-
Link Budget Do	15540	10740				