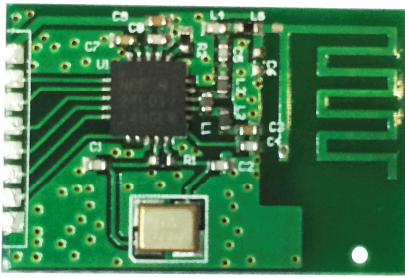


24L01P-B

2.4Ghz GFSK Transceiver Module



24L01P-B is developed by Nordic nRF24L01 solution, which is a GFSK module and designed for ultra-low power wireless application in the worldwide ISM Band 2.400 ~ 2.483GHz.

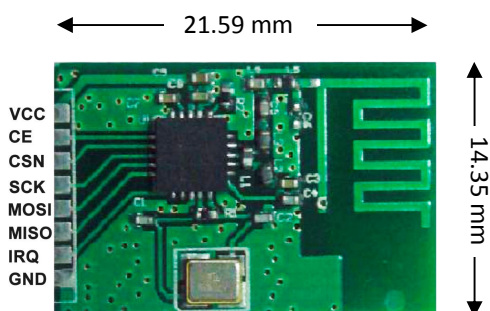
APPLICATION:

- Wireless PC peripherals
- 3-in-1 desktop bundles
- RF remote for consumer products
- Home & commercial automation
- Active RFID

FEATURES:

- Worldwide 2.4GHz ISM Band (2.400 ~ 2.483GHz)
- GFSK Modulation
- 250K, 1M, 2M air data rate
- Programmable output power: 0, -6, -12, 18dBm
- 11.3mA TX @0dBm output power/ 13.1mA RX @1Mbps air data rate
- 900nA in power down mode/ 22uA in standby-1
- 1.9V ~ 3.6V supply voltage range
- Automatic packet handling/ Auto packet transaction handling

SYMBOL		PARAMETER	Min.	Typ.	Max.	Unit
Operation Conditions	VDD	Supply voltage	1.9	3	3.6	V
General RF Conditions	F _{op}	Operating frequency	2400		2483	MHz
	F _{XTAL}	Crystal frequency		16		MHz
	ΔF	Crystal tolerance			±60	ppm
Power Consumption	I _{VDD_TX0}	Supply current @0dBm output power		11.3		mA
	I _{VDD_1M}	Supply current 1Mbps		13.1		mA
	I _{VDD_PD}	Supply current in power down mode		900		nA
	I _{VDD_ST1}	Supply current in standby-I mode		26		uA
	I _{VDD_ST2}	Supply current in standby-II mode		320		uA
TX Operation	P _{RF}	Maximum output power		0	4	dBm
RX Operation	RX _{SENS}	Sensitivity (0.1%BER) @2Mbps		-82		dBm
		Sensitivity (0.1%BER) @1Mbps		-85		dBm
		Sensitivity (0.1%BER) @2Mbps		-95		dBm
DC Characteristic	V _{IH}	High level input voltage	0.7VDD		5.25	V
	V _{IL}	Low level input voltage	VSS		0.3VDD	V



PIN Name	Pin Type	Description
VCC	Power	Power supply (+1.9 ~ +3.6V DC)
CE	Digital input	Chip enable activates Rx or Tx
CSN	Digital input	SPI chip select
SCK	Digital input	SPI clock
MOSI	Digital input	SPI slave Data Input
MISO	Digital output	SPI slave Data Output, with tri-state option
IRQ	Digital output	Maskable interrupt pin. Active low
GND	GND	

* Features and specification are subject to change without notice.



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