

2.4GHz UART RS232 / RS485 Digital Data Transceiver Modules

Version: H Date: 2010/07/28

A. Features

Digital UART design enables RS232 / RS485 data format input

Fixed baud rate at 9600, 4800, 2400, 1200 bps optional

Data rate at 250K bps

Short switching time with frequency hopping

Power supply range: 3 V to 3.6 V

Transmission power: 14 dBm (option: 20 dBm)

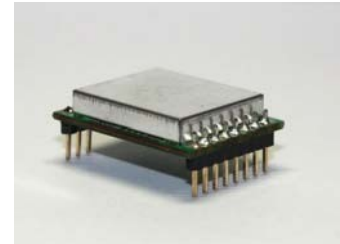
Transmission range: 400 m L.O.S. (20 dBm: 600 m)

CE & FCC compliance

Auto ACK & retransmit

Minimum number of external components

Outline: 19 x 24.8 x 4.3 mm



**MDD-24L1411P
Standard**

B. Applications

Wireless data communication

Keyless entry

Alarm and security systems

Home automation

Surveillance

Automotive (Car) remote

Remote control toys

Industrial sensors

Telemetry

Wireless mouse, keyboard, joystick

Intelligent sports equipment

Wireless photo frame



**MDD-24L1411P
With SMA (RF out)
Option**

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C: Specification

Parameter	Min.	Typ.	Max.	Unit	Remark
Electrical Section					
Supply Voltage	3	3.3	3.6	V	
Supply current		22		mA	AVG
Baud Rate Setting	1200, 2400, 4800, 9600			bps	2-bit setting
Data input					
High level input voltage	2.1	~	3.3	Vpp	
Low level input voltage	0	~	1.08	Vpp	
Data output					
High level output voltage 2.1 ~ 3.3 Vpp					
Low level output voltage	0	~	0.3	Vpp	
RF Section					
Operating Frequency	2400	~	2483	MHz	83 CH, Smart Hopping
Channel Bandwidth	1.8		2	MHz	
Transmission Power	18	20	22	dBm	option: 14dBm
Receiver Sensitivity		-85		dBm	
ID Setting	Random auto pairing in 2 ¹⁶ ID				Via tact switch
Operation					
Operating Temperature	-10	~	+60	°C	

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D: Pin Assignment

No.	Marks	Function								
1	DS0	Data rate select:	0	2400	0	1200	1	4800	1	9600
2	DS1		0	bps	1	bps	0	bps	1	bps
3	3.3V	3.3V power supply								
4	GND	Ground								
5	Data OUT	Data OUT								
6	Data IN	Data IN								
7	System LED	LED indicator								
8	ID/INIT	ID Pairing KEY								

PIN Type

Model: ND-24L1411-P

Standard

