

MDD-24L1401-S & MDD-24L1401-P 2.4GHz Digital Data Transceiver Modules

Date: 2008/10/28

A. Features

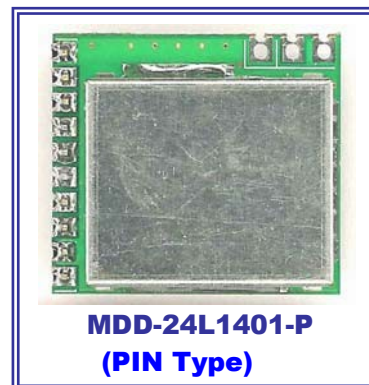
- ▶ Software selectable channel from 2400MHz to 2525MHz (125 Selectable channels)
- ▶ On the air max. data rate 2Mbps
- ▶ Digital interface (SPI) speed 0-8 Mbps
- ▶ Auto ACK & retransmit
- ▶ Short switching time enable frequency hopping
- ▶ Minimum number of external components
- ▶ Power supply range: 3 V to 3.6 V
- ▶ Transmission range: 100 m (Line of sight)
- ▶ Outline: 23.2 x 20.8 x 4.3 mm
- ▶ CE & FCC compliance



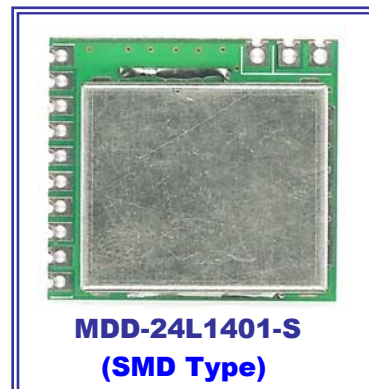
MDD-24L1401-P

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-24L1401-P
(PIN Type)**



**MDD-24L1401-S
(SMD Type)**

MDD-24L1401-S & MDD-24L1401-P

2.4GHz Digital Data Transceiver Modules

Date: 2008/10/28

C: Specification

Parameter	Min.	Typ.	Max.	Unit
Electrical Section				
Supply Voltage	3	3.3	3.6	V
Supply current in TX mode		75		mA
Supply current in RX mode	17	18	19	mA
Digital input pin				
High level input voltage	2.1		2.25	Vpp
Low level input voltage	0		1.08	Vpp
Digital output pin				
High level output voltage 2.7	3.6 Vpp			
Low level output voltage	0		0.3	Vpp
RF Section				
Operating Frequency	2400	~	2525	MHz
Channel Bandwidth	1.8		2	MHz
Transmission Power	12	14	16	dBm
Receiver Sensitivity		-75		dBm
Operation				
Operating Temperature	-10	~	+60	°C

MDD-24L1401-S & MDD-24L1401-P 2.4GHz Digital Data Transceiver Modules

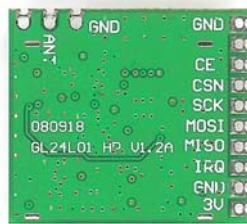
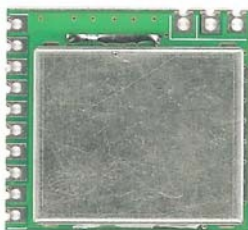
Date: 2008/10/28

D: Pin Assignment

No.	Marks	Function
1	GND Ground	
2 x	No	Connection
3	CE	Chip Enable Activates RX or TX mode
4	CSN Chip	Select
5	SCK	Serial Clock (output from master)
6	MOSI	Master Output, Slave Input (output from master)
7	MISO	Master Input, Slave Output (output from slave)
8	IRQ	Maskable interrupt pin
9	GND Ground	
10	3V Power	Supply

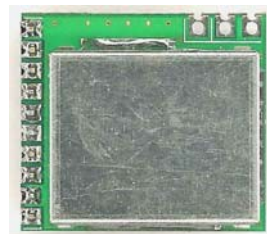
SMD Type

Model: MDD-24L1401-S



PIN Type

Model: ND-24L1401-P



MDD-24L1401-S & MDD-24L1401-P

2.4GHz Digital Data Transceiver Modules

Date: 2008/10/28

E: Mechanical Dimension

