

### DP1203

868MHz and 915MHz Drop-in Radio Transceiver Modules

#### HIGH PERFORMANCE TRANSCEIVER MODULE

##### Key Features:

- No RF knowledge required
- Direct Digital interface
- Fully assembled and tested
- Surface mount
- 30 mm x 18 mm
- Available in tape&reel for automatic assembly system
- Supply voltage 2.4 V – 3.6 V
- Frequency synthesizer steps 500 Hz
- Output power is programmable up to 11 dBm
- High reception sensitivity down to -112 dBm
- Data rate up to 153.2 kbit/s
- Current consumption TX=62 mA@11 dBm
- Current consumption RX=14 mA
- Digital RSSI (Received signal Strength Indicator)
- Digital FEI (Frequency Error Indicator)

##### Applications:

- Security and Alarm Systems
- Wireless Sensor Networks
- Automated Meter Reading
- Personal Area Network
- Sports & Health Equipment
- Home and Building Automation
- Industrial Monitoring and Control
- Process and building control



# Product Brief

## DP1203

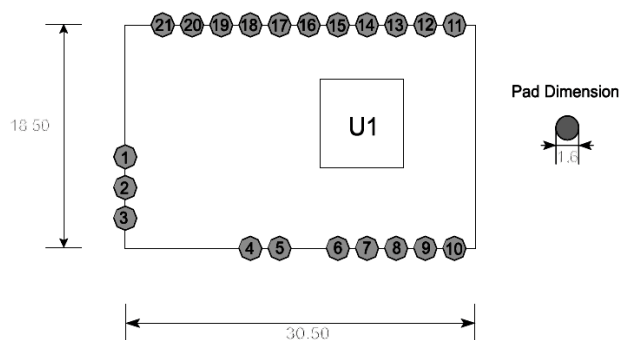
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Characteristics					
Parameter	Min	Typ	Max	Unit	Condition
<b>Operating Conditions</b>					
Operating temperature range	-40		85	°C	
Operating supply voltage	2.4		3.6	V	
<b>Current Consumption</b>					
Current consumption Rx		14	17	mA	
Current consumption Tx		62	75	mA	+11 dBm
Current consumption, stand by		0.9	1.1	mA	
Current consumption, sleep mode		0.1	1	µA	
<b>RF Characteristics</b>					
Frequency range	433		435	MHz	
	868		870	MHz	
	902		928	MHz	
Data rate (programmable)	1.2		153.2	Kbit/s	
Tx Output power (programmable)	0		11	dBm	
Rx sensitivity		-112		dBm	BR=4.8 kb/s; BER=0.1%

## FOOTPRINT AND MECHANICAL DIMENSIONS

The following diagram shows the physical footprint dimension of the DP1203 module, which should be implemented on the motherboard PCB.

PINOUT			
1	GND	12	SO
2	RFIN/OUT	13	SI
3	GND	14	SCK
4	VDDP	15	CLKOUT
5	VDDA	16	DCLK
6	GND	17	DATA
7	VDD	18	DATA IN
8	EN	19	PATTERN
9	SWITCH	20	RX
10	GND	21	TX
11	GND		



Visit our website to locate the most current product specifications, datasheets and contact information for your local Distributor.

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