

### DP1231

Low Power Integrated UHF-band Transceiver Module

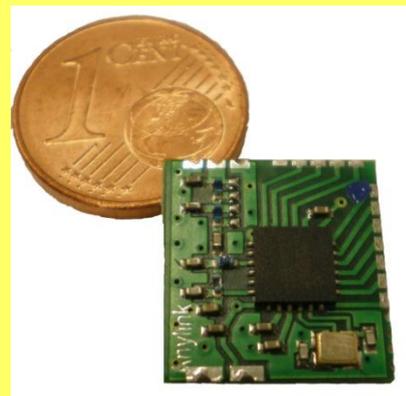
#### HIGH LINK BUDGET TRANSCEIVER MODULE

##### Key Features:

- Low area needed
- FSK and OOK modulation
- Constant Output power from 1.8 to 3.6 Volt
- Good reception sensitivity down to  
-120 dBm at 1.2 kb/s in FSK,  
-112 dBm at 4.8 kb/s in OOK
- Programmable RF output power: up to +13 dBm in 1 dB steps starting from -18dBm
- Packet handling feature with data whitening and automatic CRC generation
- RSSI (Received Signal Strength Indicator) range from noise floor to 0 dBm
- Bit rates up to 300 kb/s, NRZ coding
- On-chip frequency synthesizer
- Incoming sync word recognition
- Built-in Bit-Synchronizer for incoming data, clock synchronization and recovery
- 433, 868 and 915 MHz ISM frequency bands
- 15 x 14 mm Board RoHS-compliant
- Satisfies ETSI EN 300-220-1 and FCC part 15.247 regulations

##### 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
- Wireless M-BUS



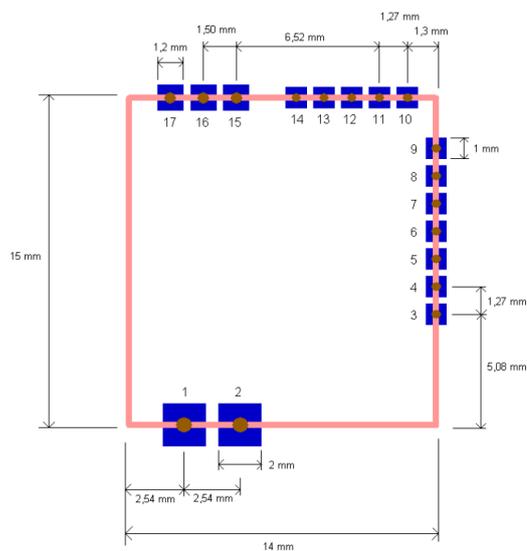
# Product Brief

## DP1231

### Low Power Integrated UHF-band Transceiver Module

Characteristics					
Parameter	Min	Typ	Max	Unit	Condition
<b>Operating Conditions</b>					
Operating temperature range	-20		70	°C	
Operating supply voltage	1.8		3.6	V	
<b>Current Consumption</b>					
Current consumption Rx		16		mA	
Current consumption Tx		20.0		mA	+0 dBm
		45.0		mA	+13 dBm
Current consumption, sleep mode		0.1	1	µA	
<b>RF Characteristics</b>					
Frequency range	424		510	MHz	
	862		902	MHz	
	902		1020	MHz	
Data rate (programmable)	1.2		300	Kbit/s	FSK
	1.2		32.768	Kbit/s	OOK
Tx Output power (programmable)	-8.5		12.5	dBm	
Rx sensitivity		-120		dBm	FSK Modulation: FDA=5kHz, BR=1.2kb/s
		-112		dBm	OOK Modulation: BR=4.8 kb/s

Conditions: Temp=25°C, VDD=3.3V, crystal frequency=32 MHz, carrier frequency= 915MHz, 2-level FSK modulation, data rate=4.8 kb/s, FDA=5kHz, unless otherwise specified.



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

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