

# Product Brief

ANYLINK WIRELESS PRODUCTS

## DPS1211 – 868 MHz / 915 MHz

Ultra-low Power Multi-Channel UHF-band Transceiver Module

### WORLD'S LOWEST RECEIVE CURRENT TRANSCEIVER MODULE (<3mA)

#### Key Features:

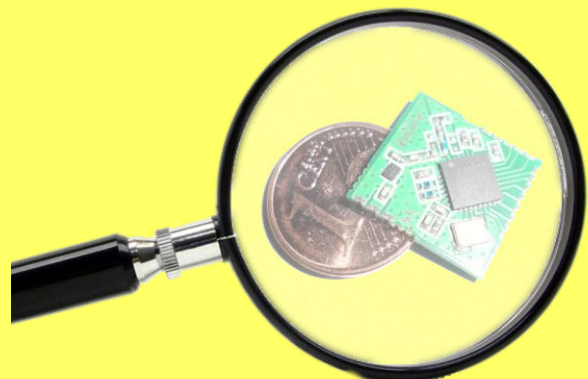
- 3mA current consumption in receive mode
- RX sensitivity -107 dBm @ 25 kbit/s (FSK)  
-110 dBm @ 2 kbit/s (OOK)
- Programmable RF output power: up to +12.5 dBm in 8 steps (SAW -2.8dB)
- FSK and OOK modulation
- Data rates programmable from 1.56 to 200 kbit/s (FSK)
- 64-byte FIFO for transmit/receive data buffering and transfer via SPI bus
- RSSI (Received Signal Strength Indicator) range from noise floor to 0 dBm
- Packet Handling, CRC generation and Data Whitening
- Incoming sync word recognition
- Built-in bit-synchronizer for incoming data, clock synchronization and recovery
- 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
- Sub-Metering
- Personal Area Network
- Sports & Health Equipment
- Home and Building Automation
- IOT
- Industrial Monitoring and Control



Original Size: 15 x 14 mm

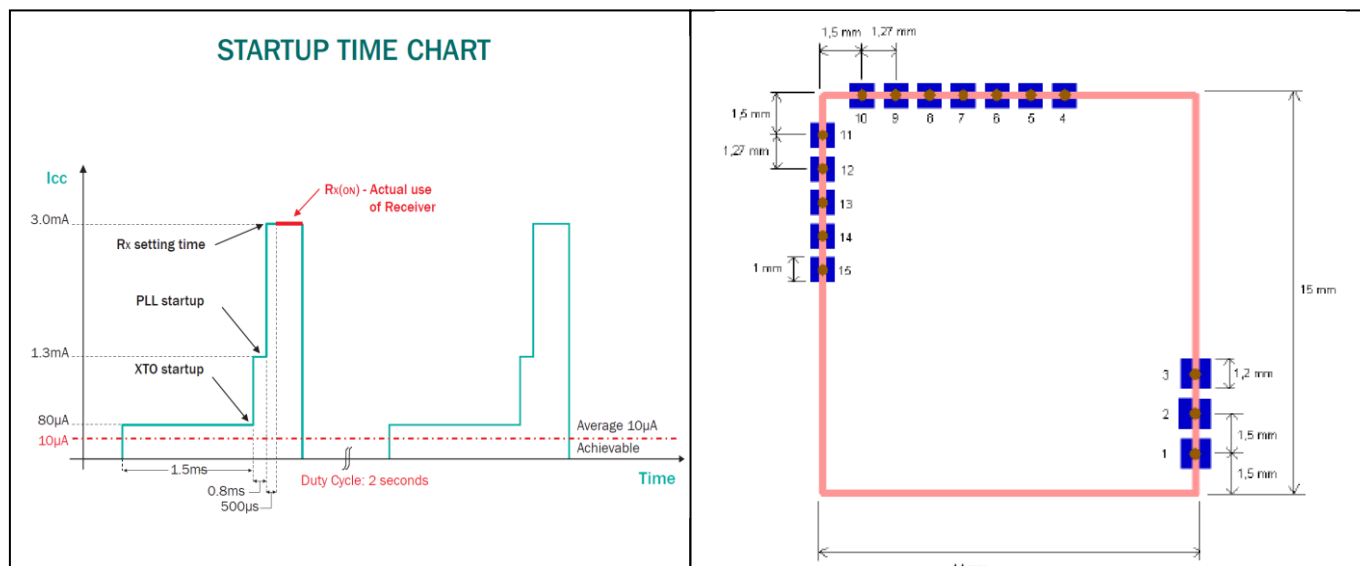


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## DPS1211

Ultra-low Power Multi-Channel UHF-band Transceiver Module

Characteristics					
Parameter	Min	Typ	Max	Unit	Condition
<b>Operating Conditions</b>					
Operating temperature range	-20		70	°C	
Operating supply voltage	2.1		3.6	V	
<b>Current Consumption</b>					
Current consumption Rx		3		mA	
Current consumption Tx		16.0		mA	+1 dBm
		25.0		mA	+10 dBm
Current consumption, sleep mode		0.2	2	µA	
<b>RF Characteristics</b>					
Frequency range	863		870	MHz	
	902		928	MHz	
Data rate (programmable)	1.56		200	Kbit/s	FSK
	1.56		32	Kbit/s	OOK
Tx Output power (programmable)	-8.5		12.5	dBm	Insertion Loss of SAW Filter typ. 2.8 dB
Rx sensitivity		-107		dBm	
		-110		dBm	OOK Modulation: 2 kb/s NRZ, Carrier Frequency=869 MHz
Conditions: Temp=25°C, VDD=3.3V, crystal frequency=12.8 MHz, carrier frequency= 915MHz, modulation FSK, data rate=25 kb/s, Fdev=50kHz, BW <sub>(SSB)</sub> =100kHz, BER=0.1%, unless otherwise specified.					



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

WWW.ANYLINK.DE

**ANYLINK** SYSTEMS AG

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