

Product Brief

ANYLINK WIRELESS PRODUCTS



DP1276 – 169 / 433 / 868 / 915 MHz

Low Power, Long Range UHF-band Transceiver Module

WORLD'S HIGHEST LINK BUDGET TRANSCEIVER MODULE

Key Features:

- LoRa™ Modem
- 168 dB maximum link budget
- +20 dBm constant RF output vs. V supply
- Programmable bit rate up to 300 kbit/s
- High sensitivity: down to = -148 dBm
- Bullet-proof front end: IIP3 = -12.5 dBm
- 89 dB blocking immunity
- Low RX current of 10 mA, 100nA register retention
- Fully integrated synthesizer with a resolution of 61 Hz
- FSK, GFSK, MSK, GMSK, LoRa™ and OOK modulation
- Preamble detection
- 127 dB Dynamic Range RSSI
- Automatic RF Sense and CAD with ultra-fast AFC
- Built-in temperature sensor and low battery indicator
- 16 x 22 mm Board RoHS-compliant
- Packet engine up to 256 bytes with CRC
- Built-in bit synchronizer for clock recovery
- Satisfies ETSI EN 300-220-1 and FCC part 15.247 regulations

Applications:

- Security and Wireless Alarm Systems
- Wireless Sensor Networks
- Sub-Metering (AMR)
- Personal Area Network
- Sports & Health Equipment
- Home and Building Automation
- Industrial Monitoring and Control
- Long range Irrigation Systems
- IOT



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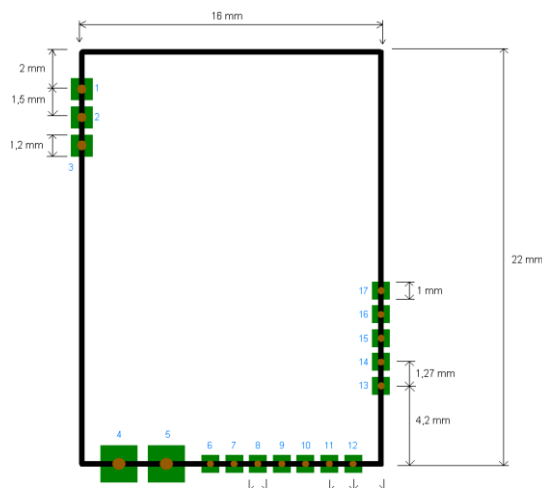
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SYSTEMS AG

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Characteristics					
Parameter	Min	Typ	Max	Unit	Condition
Operating Conditions					
Operating temperature range	-20		75	°C	
Operating supply voltage	2.1		3.6	V	
Current Consumption					
Current consumption Rx		10.5		mA	LnaBoost = 00
		125.0		mA	+20 dBm, on PA_BOOST (FSK, OOK)
		87.0		mA	+17 dBm, on PA_BOOST (LoRa™)
Current consumption, sleep mode		0.1	1	µA	
RF Characteristics					
Frequency range	138		170	MHz	depending on variant C169
	433		434	MHz	depending on variant C433
	860		928	MHz	depending on variant C868 / C915
Data rate (programmable)	1.2		300	Kbit/s	FSK
	1.2		32	Kbit/s	OOK
Data rate in LoRa™ Mode	0.24		37.5	Kbit/s	LoRa™
Tx Output power (programmable)	-1		+20	dBm	
Rx sensitivity		-121		dBm	FSK FDA = 5 kHz, BR = 1.2 kb/s
		-117		dBm	OOK BR = 4.8 kb/s
		-148		dBm	7.8 kHz BW SF 12 LoRa™ Mode 18bps
Conditions: Temp=25°C, VDD=3.3V, crystal frequency=32 MHz, carrier frequency= 915MHz, modulation 2-level FSK without pre-filtering, data rate=4.8 kb/s, Fdev=5kHz, BW _(SSB) =10kHz, BER=0.1%, 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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