

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ThingMagic Nano

Embedded UHF RFID Module





ThingMagic Nano delivers the smallest form factor for a Mercury Series embedded UHF RFID module with very low power consumption and is ideal for battery operated, low cost, small form-factor portable readers. ThingMagic Nano's wide RF output range (0 dBm to +27 dBm) is important for the read/write requirements for RFID-enabled printers and tag commissioning stations. It features a surface mount package designed for the efficiency of SMT manufacturing, driving down the total cost for embedding RFID in volume applications, including handheld devices, consumables authentication, device configuration and access control.

Physical		
Dimensions	22 mm L x 26 mm W x 3.0 mm H (0.866 in L x 1.024 in W x 0.118 in H)	
Tag / Transponder Protocols		
RFID Protocol Support	EPCglobal Gen 2 (ISO 18000-6C)	
RF Interface		
Antennas	Single 50Ω connection (board-edge)	
RF Power Output	Separate read and write levels, command- adjustable from 0 dBm to +27 dBm in 0.01 dB steps	
Regulatory	Pre-configured for the following regions: • FCC (NA, SA) 917.4 – 927.2 MHz • ETSI (EU) 865.6 – 867.6 MHz • TRAI (India) 865 – 867 MHz • KCC (Korea) 917 – 923.5 MHz • MIC (Japan) 916.8 – 923.4 MHz • ACMA (Australia) 920 – 926 MHz • SRRC-MII (P.R.China) 920.1 – 924.9 MHz • 'Open' (Customizable channel plan; 859 – 873 MHz and 915 – 930 MHz)	
Data/Control Interface		
Physical	41 board-edge connections providing access to RF, DC power, communication, and GPIO signals	
Control/Data Interfaces	• UART; 3.3V logic levels; 9.6 to 921.6 kbps • Shutdown control	
GPIO Sensors and Indicators	Four 3.3V bidirectional ports configurable as input (sensor) ports or output (indicator) ports	
API support	C#/.NET, Java, and Embedded "C" APIs	

Power	
DC Power Required	 DC Voltage: 3.3 to 5.5 V for +25 dBm out 3.7 to 5.5 V for +27 dBm out DC power consumption when reading: 3.2 W @ 5 VDC for +27 dBm out 2.9 W @ 5 VDC for +25 dBm out 1.5 W @ 5 VDC for 0 dBm out
Idle Power Consumption	0.84 W in ready mode0.015 W in sleep mode0.00025 W in shutdown mode
Environment	
Certification	 FCC 47 CFR Ch. 1 Part 15 Industrie Canada RSS-21 0 ETSI EN 302 208 v1.4.1
Operating Temp.	-20C to +60C (case temperature)
Storage Temp.	-40C to +85C
Shock and Vibration	Survives 1 meter drop during handling
Performance	
Boot time	Less than 30 msec after initial calibration boo
Performance	Up to 200 tags/sec reading 96-bit EPC

Specifications subject to change without notice



Develop

Create RFID-enabled solutions using industry-standard tools

Deploy

Enable rapid deployment and reliable operation of RFID solutions within a wide variety of new and existing environments

Optimize

Maximize productivity, improve ROI and lower operating costs