

Micro-LTE

Anna and anna

High Performance Multi-Protocol Embedded UHF RFID Module

The 2-port Micro-LTE delivers the size, operating ef ficiency, RF power, and flexibility needed to embed UHF RFID in best-in-class fixed position, portable, and hand held applications where small form factor is important. The Micro-LTE is optimized for applications with small tag populations reading up to 50 tags/second and features low power consumption needed for battery operated solutions. Micro-LTE's wide RF output range (-5 dBm to +30 dBm) is a key requirement for RFID enabled printers, tag commissioning stations, and point of sales readers. Edge connections allow the Micro-LTE to be soldered directly to a motherboard as a standard component. The on-board connectors allow the module to be mated to a motherboard.

Ordering Inform	
Module	M6E-MICRO
Developers Kit	M6E-MICRO-DEVKIT
Physical	
Dimensions	46 mm L x 26 mm W x 4.0 mm H
ag / Transponde	er Protocols
RFID Protocol Support	EPCglobal Gen 2 (ISO 18000-6C) with DRM IP-X and ISO 18000-6B optional
RF Interface	
Antennas	Two 50 $\ \Omega$ connections (board-edge or U.FL) sup $\ -$ porting two monostatic antennas
RF Power Dutput	Separate read and write levels, command adjust - able from -5 dBm to 30 dBm* in 0.5 dB steps, accurate to +/- 1 dBm
Regulatory	Pre-con figured for the following regions: • FCC (NA, SA) 902-928 MHz • ETSI (EU, India) 865.6-867.6 MHz • TRAI (Inida) 865-867 MHz • KCC (Korea) 917-920.8 MHz • ACMA (Australia) 920-926 MHz • SRRC-MII (PR.China) 920-925 MHz • MIC (Japan) 916.8-923.4 MHz • 'Open' (Customizable channel plan; 865-868 MHz and 902-928 MHz)
Data/Control Inte	erface
Physical	28 board-edge connections or Molex low pro file connector (53748-0208) providing DC power, communication, control and GPIO signals
Control/Data Interfaces	UART; 3.3V logic levels 9.6 to 921.6 kbps USB 2.0 interface (12 Mbps)
GPIO Sensors and Indicators	Two 3.3V bidirectional ports con figurable as input (sensor) ports or output (indicator) ports
API support	C#/.NET, Java, C

Power		
DC Power Required	DC Voltage: 3.5 to 5.25 V** DC power consumption @ RF level: 5.5 W @ +30 dBm *** 3.5 W @ +27 dBm 2.5 W @ +23 dBm 2.0 W @ 0 dBm	
Power Consumption when not transmit - ting	0.32 W	
Idle Power Saving Options	Standby: 0.06 W Sleep: 0.008 W Shutdown: 0.0003 W	
Environment		
Certi fication	FCC 47 CFR Ch. 1 Part 15 Industrie Canada RSS-21 0 ETSI EN 302 208 v3.1.1 (RED 2014/53/EU)	
Operating Temp.	-20C to +60C (case temperature)	
Storage Temp.	-40C to +85C	
Shock and Vibra - tion	Survives 1 meter drop during handling	
Performance		
Max Read Rate	50 tags/second	
MaxTag Read Distance	Over 30 feet (9 m) with 6 dBiL antenna (36 dBm EIRP)	



Specifications subject to change without notice *Duty cycle restrictions, based on temperature, apply at power levels above +23 dBm *Will operate below +3.5 V with reduced input line noise immunity ***Best case with good antenna matching





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MAKING RFID EASY TO USE

ThingMagic is dedicated to driving the barriers to deploying RFID technology as low as possible. We design our products to be easy to use out-of-the box and to deliver predictable, reliable, and repeatable performance. Our development tools require little RFID expertise, enabling you to rapidly design, test, and deploy your RFID solutions.

Developers Kit

Included with every ThingMagic reader Developer Kit, the MercuryAPI supports the entire line of ThingMagic finished readers and embedded RFID modules

- Test chassis
- Cables
- Antenna
- Sample Tags
- Full schematics to help you design your own complimentary components

Mercury API

ThingMagic

Sour

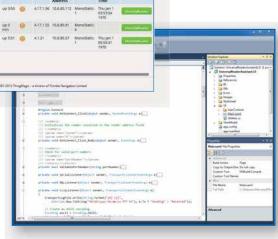
A common development platform, supporting an extensive variety of hardware to connect, configure, and control ThingMagic readers.

Universal Reader Assistant

A utility for advanced demo, testing, and tuning of all ThingMagic readers. Reduces complexity for novice users while permitting low-level control for advanced developers.



M6e Reader DevKit shown



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