



# Development Kits— For ThingMagic® Mercury UHF RFID Embedded Modules

The Mercury Dev Kit for ThingMagic UHF RFID modules contains all the components necessary to begin reading and writing RFID tags and developing RFID-enabled applications. A powerful application programming interface (MercuryAPI) provides code examples, a graphical read-write demo program, and delivers a consistent programmatic interface for development with all ThingMagic readers and embedded module products.

## 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

Everything needed to read and write RFID tags and begin developing RFID-enabled applications:

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

## Mercury API

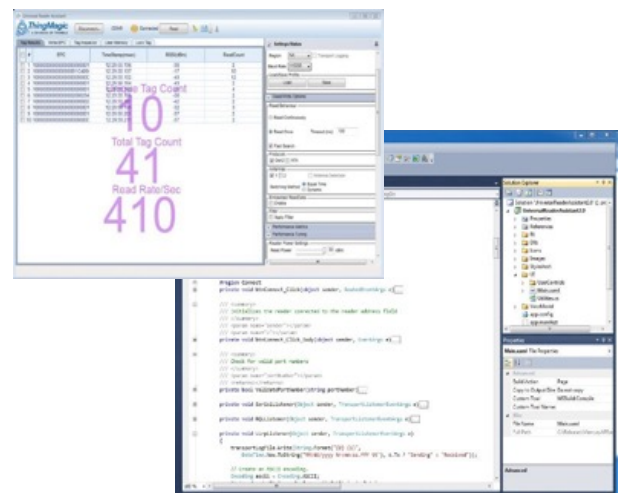
A common development platform, supporting an extensive variety of hardware to connect, configure and control ThingMagic readers.

## 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.



M7e Dev Kit shown



## Specifications

Module Development Kit Chassis	
<b>Antenna Connector</b>	R-TNC connectors supporting one, two, or four monostatic antennas (depending on module type)
<b>USB Connectors</b>	One USB port connected to the serial port of the module
<b>GPIO Access</b>	<ul style="list-style-type: none"> <li>• 4 External switches to set GPIO input state</li> <li>• 4 External LEDs to indicate GPIO output states</li> </ul> Note: Module GPIO lines are software selectable as input or output.
Application Programming Interface	
The ThingMagic MercuryAPI is a powerful programming interface with example applications and sample code in C, Java and C#/.NET. The MercuryAPI provides a consistent programmatic interface across all ThingMagic fixed and embedded reader products to speed development and time to market of highly complementary RFID-enabled offerings.	
<b>Supported OS and application types</b>	<ul style="list-style-type: none"> <li>• C-API designed to provide support for embedded systems</li> <li>• .NET applications in the</li> <li>• .NET Compact Framework v4.0</li> <li>• Windows applications in the</li> <li>• .NET Framework</li> <li>• Windows applications in the Java Framework</li> <li>• Linux (Intel) and MacOSX applications in the Java Framework</li> <li>• Android applications in the Java framework 7.0E-01</li> </ul>
<b>Code space required</b>	<ul style="list-style-type: none"> <li>• 32k Basic Gen2</li> <li>• 64k Advanced Gen2</li> </ul>
Module Development Kit Contents	
<b>Power Adapter</b>	<ul style="list-style-type: none"> <li>• In: 90-264 V, 0.4 A, 47-63 Hz</li> <li>• Out: +9 V @ 2.2 A</li> <li>• Max total output power: 19.8 W</li> <li>• US, European, UK, and Australian plugs</li> </ul>
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• RFID Module mounted in DevKit chassis</li> <li>• 9V AC Power adapter</li> <li>• Sample RFID tags</li> <li>• USB cable</li> <li>• Antenna Cable</li> <li>• 7.5 inch wideband antenna 865-879 MHz: 7 dBiC min 90-264V, 0.4 A, 47-63 Hz</li> </ul>
<b>Software and Documents (available online)</b>	<ul style="list-style-type: none"> <li>• Reader firmware</li> <li>• Reader Users Guide</li> <li>• MercuryAPI</li> <li>• MercuryAPI and Firmware Release Notes and Programmer Guide</li> </ul>

Specifications are subject to change without notice.

## Ordering Information

<b>M7E-DEVKIT</b>	<b>Development Kit with M7e module with Power Adapter</b> Development kits are module specific. A single module is included with each DevKit purchase.
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Visit [www.jadaktech.com](http://www.jadaktech.com) for more information on Development Kits and to connect with us on your next project.



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