ThingMagic
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MERCURY6

4-Port Enterprise UHF RFID Reader

The Mercury®6 (M6) is a low profile, high-performance 4-port RFID reader designed for both indoor and outdoor applications. Driven by ThingMagic's powerful Mercury6e UHF RFID reader module, the M6 Power over Ethernet (PoE) and WiFi options allow for flexible, low cost, installations. With full support for ThingMagic's enterprise-class MercuryOS software, M6 is compatible with both corporate IT infrastructures and sheltered outdoor environments.

Tag / Transponder Protocols	
RFID Protocol Support	EPCglobal Gen2 (ISO 18000-6C) with DRM ISO 18000-6B (optional)
UHF RFID Antenna Interface	
Interface	Four RP-TNC connectors
RF Power Output	Separate read and write levels, adjustable from 5 dBm to 31.5 dBm[1] (1.4W) with +/-0.5 dBm accuracy above +15 dBm
Frequency	FCC 902-928 MHz (Americas) ETSI 865.6-867.6 MHz (EU) KCC 917-920.8 MHz (Korea) TRAI 865-867 MHz (India) ACMA 920-926 MHz (Australia) IDA 920-925 MHz (Singapore)* NTC 920-925 MHz (Thailand)* NCC 922-928 MHz (Taiwan)*
Data/Control/Wireless Interfaces	
Connectors	RJ45 (10/100 Base-T Ethernet) USB Type B (console port) USB Type A (accessory port) HD15 (GPIO interface) 5.54 mm sealed connector (DC power) Reverse polarity SMA jack (optional WiFi antenna)
Wireless	Internal 802.11 b/g (optional) WEP 40-bit and 104-bit keys; WPA & WPA2 with TKIP and AES algorithms with pre-shared keys or EAP-TLS USB type A interface permits future support for external wireless technologies
Indicators, switches, and GPIOs	1 two-color LED status indicator; Reset switch; Isolated GPIOs; 4 Inputs & 4 Outputs plus +5 VDC and grounded references
Physical	
Dimensions	19 cm L x 17.8 cm W x 3.4 cm H (7.5 in L x 7.0 in W x 1.3 in H)
Weight	2 lbs (0.9 kg)
Regulatory & Safety	
Safety	IEC 60950-1 (ed.2) US-17669-UL
Other	RoHS compliant per EU directive 2002/95/EC, UL Listed (Pending)

Power	
Power Over Ethernet	Power over Ethernet 802.3af in both modes A and B (Supports 100m cable)
External DC Power	10- 30 VDC supply voltage Maximum DC power: 15 W
Environment	
Operating Temp.	-20C to +50C
Storage Temp.	-40C to +85C
Dust and water immunity	IP52
Humidity	5% to 95%, non-condensing
Architecture	
Operating System	Linux kernel version 2.6
Performance	
Max Tag Read Rate	More than 750 tags/second using high-performance settings
Max Tag Read Distance	Over 30 feet (9 m) with 6 dBi antenna (36 dBm EIRP)
Max EPC ID Length	Up to 496 bits
MercuryOS Features	
Networking	Cisco-certified DHCP & DNS-based configuration and firmware management, TCP/IP networking stack
Security	SSL/SSH-based security
Web-Based Control	Configuration and Monitoring from a web browser; HTTP/HTTPS
Application Interface	
Direct Communication	EPCglobal Low Level Reader Protocol (LLRP) v 1.1
On reader API	MercuryOS C API
Host API	Java, C, .NET

RoHS Compliant

[1] Maximum power may have to be reduced to meet regulatory limits, which specify the combined effect of the module, antenna and cable.

*Certified and available from select ThingMagic resellers.

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/) and cryptographic software written by Eric Young (eay@cryptsoft.com).

Specifications subject to change without notice.

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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.

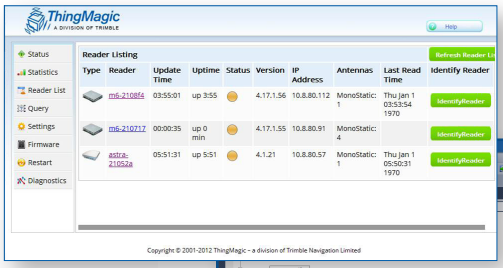
Developers Kit

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

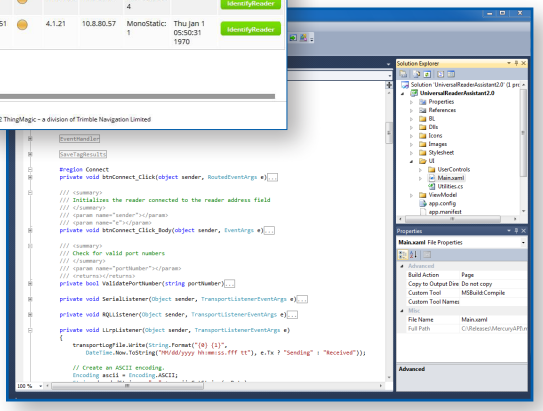
Mercury API

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.



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For more information, visit www.thingmagic.com
To purchase ThingMagic products, please email sales@thingmagic.com
or call 1-866-833-4069 (International callers dial +1 617-499-4090)

ThingMagic, A Division of Trimble
1 Merrill Street
Woburn, MA 01801