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MERCURY6
4-Port Enterprise UHF RFID Reader
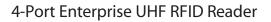
The Mercury6 (M6) is a low profile, high-performance 4-port RFID reader designed for both indoor and outdoor applications. Driven by ThingMagic's powerful Mercury6e UHF RFID reader module, the M6 Power over Ethernet (PoE) and WiFi options allow for flexible, low cost, installations. With full support 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) IP-X (EM 412x) (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* (1.4W) with +/-0.5 dBm accuracy above +15 dBm
Frequency	902-928 MHz (FCC; NA, SA) 865.6-867.6 MHz (ETSI; EU) 865-867 MHz (MCIT; India)

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

Regulatory	FCC 47 CFR Ch.1 Part 15 Industrie Canada RSS-21 0 ETSI EN 302 208 V1.2.1
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	Over 400 tags/second
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 manage - ment, TCP/IP networking stack
Security	SSL/SSH-based security
Web-Based Control	Configuration and Monitoring from a web browser; HTTP/HTTPS

RoHS Compliant

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variety of new and existing environments

Optimize

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and lower operating costs

For more information, visit www.ttsys.com

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