

# Mercury5 Reader

## Fixed RFID Reader



The Mercury5 is a high performance application platform that integrates seamlessly with industry-leading RFID data collection and processing infrastructures. Ideal for supply chain, industrial and asset tracking applications, the Mercury5 is fully optimized to support EPC Gen 1 Class 1 & Class 0, ISO 18000-6B, and EPC Gen 2. The Mercury5 fully supports Dense Reader Mode (DRM), outperforming DRM-only readers anywhere there are multiple sources of interference.

### Ordering Information

Reader	TM-M5-NA-02 TM-M5-KR-02 (Korea)
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### Tag / Transponder Protocols

RFID Protocol Support	EPCglobal Gen 1 Class 1 & Class 0, ISO 18000-6B, and EPC Gen 2 with Anti-Collision and DRM, Rewritable Class 0+
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### RF Interface

Antenna	8 RP TNC connectors supporting up to 4 bistatic antennas.
RF Power Output	+32.5 dBm (1 Watt (30 dBm) per FCC Part 15 +2.5 dB attenuation due to antenna cables)
Frequency	902 - 928 MHz

### Data/Control Interface

Data/Control	Serial: RS-232 serial interface for console and GPIO connections Ethernet: 10/100 Base-T Ethernet interface
Signaling	Same as Data/Control
I/O	3 GPO ports and 2 GPI ports
Protocol	RQL and C API development environment

### Physical

Dimensions (not including stand)	Length: 30.5cm (12in) Width (with mounting bracket): 30.5cm (12in) Depth: 4.4cm (1.75in)
Weight	2.95kg (6.5lb)

### Power

DC Power Required	24V DC, 2A unregulated
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### Environment

Regulatory	FCC and KCC
Operating Temp.	-20° to 50° C
Storage Temp.	-20° to 70° C
Humidity	Relative humidity 0-90% non-condensing

### Architecture

Processors	Intel IXP420 266 MHz Network Processor Texas Instruments TI5502 300 MHz
Memory	128 Mbytes DRAM 32 Mbytes FLASH
Tag Buffer	Up to available free memory

\*It is recommended that the reader only be operated at ambient temperatures below 0 C after sufficient idle time for self-warming to raise the temperature of internal components to 0 C





## Develop

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Create RFID-enabled solutions using industry-standard tools

## Deploy

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

## Optimize

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Maximize productivity, improve ROI, and lower operating costs



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