

Astra-EX

2-Port Integrated UHF RFID Reader



Astra-EX is an easy to install, unobtrusive, integrated 2-port reader/antenna designed for office and commercial environments. Driven by ThingMagics powerful Mercury6e (M6e) UHF RFID Module, Astra-EX's Power-over-Ethernet (PoE) and Wi-Fi options allow for flexible, low cost, single cable installations. Astra-EX blends in well with corporate IT infrastructures and office layouts, and offers full support for ThingMagic's enterprise-class MercuryAPI software

Ordering Information

Astra-EX Reader with AC power & Wi-Fi - (North America)	A6-EX-NA-WIFI
Astra-EX Reader POE - (North America)	A6-EX-NA-POE
Astra-EX Reader with AC power & Wi-Fi - (Europe)	A6-EX-EU-WIFI
Astra-EX Reader POE - (Europe)	A6-EX-EU-POE

Tag / Transponder Protocols

RFID Protocol Support	EPCglobal Gen2 (ISO 18000-6C) with DRM ISO 18000-6B (optional)
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UHF RFID Antenna Interface

Antenna	One integrated 8.5 dBiC antenna, 865 to 960 MHz
Ext. Interface	One RP-TNC connector
RF Power Output	Separate read and write levels, adjustable from 5 dBm to 31.5 dBm* (1.4W) on external port, up to 30.0 dBm (1.0 W) into integrated antenna with +/-0.5 dBm accuracy above +15 dBm
Regulatory Regions	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)

Data/Control/Wireless Interfaces

Connectors	RJ45 (10/100 Base-T Ethernet) USB Type B (console port) USB Type A (accessory port) HD15 (GPIO interface) 2.5 mm screw-lock barrel (DC power) Female SMA (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
Expansion	USB type A interface permits support for USB client accessories
Indicators, switches, and GPIOs	1 two-color LED status indicator with reset switch; Isolated GPIOs: 4 Inputs & 4 Outputs plus +5 VDC and ground references

Physical

Dimensions	26.1 cm L x 26.1 cm W x 7.6 cm H (10.2 in L x 10.2 in W x 3.0 in H)
Weight	4.5 lbs (2.0 kg)

Regulatory & Safety

Regulatory	FCC 47 CFR Ch. 1 Part 15; Industrie Canada RSS-21 0 ETSI EN 302 208
Other	ROHS Compliant IEC 60950-1(ed.2) US-17668-UL

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
Humidity	5% to 95% non-condensing

Architecture

Processor	Intel IXP420 Network Processor
DRAM Memory	64MB
Flash Memory	32MB
Tag Buffer	Memory accommodates 65,000 tags

Performance

Max Read Rate	Over 400 tags/second
Max Read Distance	Over 30 feet (9 m) with Integrated antenna
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
Protocol Interfaces	LLRP v1.0.1 with multiprotocol extensions
Programming Interface	Java, C, and C# (.NET) APIs on host C-API on reader



*Maximum power may have to be reduced to meet regulatory limits, which specify the combined effect of the module, antenna, cable, and enclosure shielding of the integrated product. Specifications subject to change without notice.

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



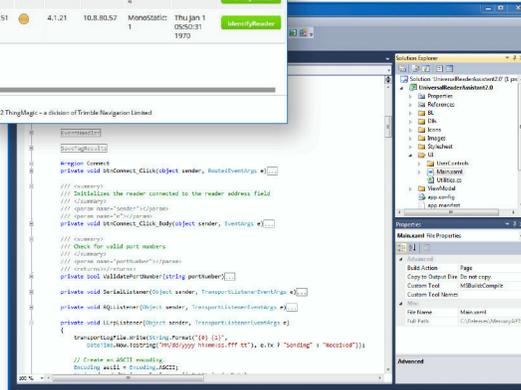
Mercury API

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.



Phone:
1.888.238.1155 | Inside USA
1.205.383.2244 | Outside USA

Email:
info@atlasRFIDstore.com

www.atlasRFIDstore.com