

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 ThingMagic's 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
Development Kit	A6-DEVKIT

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 cm L x 26 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	More than 750 tags/second using high-performance settings
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



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