



Astra UHF Reader



Purchase Code: 500.250

The UHF RFID reader Astra offers exceptional performance, making it a cost effective solution for EPC Gen2 RFID readings. It is ideal for industrial and commercial environments requiring discrete applications, with minimal cabling and antenna. The

Astra is a mix of information management and advanced security features, with the practicality of being powered via ethernet and have integrated antenna. It also has API for software development in C, .NET and Java.

• Technical Specifications

Power

- PoE (Standard 802.3af) - Power by ethernet network
- External DC supply (optional): 10 to 30V DC, maximum power of 15W

Environment

- Operating Temperature: -20°C to +60°C
- Humidity: 0 to 90% (non-condensing)

Architecture

- Processor: Intel IXP420 Network
- DRAM Memory: 64 MB
- Flash Memory: 32 MB
- Tag Buffer: 65.000 tags
- Operational System: Linux

MercuryOS Features

- Security: SSL based / SSH
- Web-Based Applications: Settings and monitoring performed via browser; HTTP / HTTPS
- Programming: RQL ((compatible with most programming languages) and Mercury API in C, .NET and Java)
- Communication: TCP/IP
- Ability to perform in-house software for managing tags
- External Trigger for reading / write tags

Performance

- Reading Rate: up to 190 tags / second
- Reading distance*: 9 meters with built-in antenna mono-static 6 dBi circular polarization and beam aperture of 65°
- Ability to identify EPC: 256 bits

Protocol

- Interface RFID protocol: EPC Global Gen 2 (ISO 18000-6C) with anti-collision, DRM

Physical Aspects

- Dimensions: 260 x 260 x 76 mm

RFID Interface

- External antenna connector: 1 Reverse TNC to support mono-static external antenna, plus the integrated antenna
- Output power: Levels of reading and writing separate, configurable from 5 dBm to 30 dBm (1W), accuracy of ± 1.0 dBm
- Frequency of Operation: 902-907 MHz, 915-928 MHz (Anatel, Brazil)

Data Control Interface

- Connectors: Ethernet Interface 10/100 Base-T; RS-232 serial port; 12-pin terminal for connection by screw
- Indicators: 1 LED indicator
- Opto-isolated GPIOs: 4 inputs e 4 digital outputs (0 to 5V DC)

* The reading distance may vary according to the tag antenna, cable and using the player environment.

• Dimensions [mm]

