



***This UHF RFID Reader offers an enterprise level, high performance yet low cost EPC Gen 2 RFID solution.***

The integrated UHF RFID reader series is ideal tool for commercial and industrial environments where unobtrusive reader and antenna deployments with a minimum of cabling are required. It offers an enterprise level, high performance yet low cost EPC Gen 2 RFID solution. This reader series also supports thread safe local applications and remote applications on Windows.



**Key Features**

- ✓ Cisco-certified DHCP and DNS-based configuration and firmware management, TCP/IP networking stack
- ✓ Separate read and write levels, configurable from 5dBm to 30dBm (1W),  $\pm 1.0$ dBm accuracy
- ✓ Connectors: 10/100 Base-T Ethernet interface, serial RS232 port, 12-pin screw terminal connector
- ✓ 1 LED indicator; Opt-isolated GPIOs: 4 inputs and 4 outputs
- ✓ SSL/SSH-based security
- ✓ RoHS compliant
- ✓ Conforms to EPC Global Gen 2 (ISO 18000-6C) protocol with Anti-collision, DRM and advanced anti-jamming
- ✓ Hop table with up to 62 entries, configurable in 50kHz steps, accommodating the following ranges: FCC 902 to 928MHz; ETSI 865.6 to 867.6MHz (planned); MIC 910 to 914MHz (planned)
- ✓ Wireless: 802.11b/g (optional) WEP 40-BIT AND 104-BIT KEYS; WPA and WPA2 with TKIP and AES algorithms with pre-shared keys or EAP-TLS



## Technical Specifications

Antenna connector	1 RP TNC connector to support external mono-static antenna in addition to integrated antenna.
Power over Ethernet	Power over Ethernet 802.3af in both modes A and B (supports 100m cable)
External DC power (optional)	10 to 30V DC supply voltage. Maximum DC power: 15W
Operating temp.	-20°C to 60°C
Storage temp.	-40°C to 85°C
Humidity	Relative humidity 0 to 90% non-condensing
Processor	Intel IXP420 network processor
DRAM memory	64MB
Flash memory	32MB
Tag buffer	65,000 tags
Web based applications	Configuration and monitoring from a web browser; HTTP/HTTPS
Protocol	Reader Query Language (RQL) and Mercury OS CAPI
Max tag read rate	Over 190 tags/second
Max tag read distance	Over 30ft (9m) with 6dBi antenna (36dBm EIRP)
Max EPC ID length	256bits
Regulatory	FCC 47 CFR Ch.1 Part15; industries Canada RSS-210 ETSI EN 302 208 V1.1.1 and V1.2.1 (planned); ETSI EN 300 220 V2.1.1 (planned)
Dimensions	26cm (L) × 26cm (W) × 7.6cm (H)



**GAO RFID Inc.**

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*Celebrating Over 15 Year of Innovation*

*Product Overview*

**Integrated UHF RFID Reader (236013)**



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