



This UHF Gen 2 Fixed RFID Reader/Writer features Autopilot which eases deployment and maintenance.

This UHF Gen 2 Fixed RFID Reader/Writer features Autopilot which eases deployment and maintenance. It also features an autosest function which continuously optimizes the reader's configuration for the best, most reliable performance. A low duty cycle reduces RF interference, power consumption and energy costs. Dynamic antenna switching improves throughput and helps the reader work more efficiently. This RFID reader also delivers increased application flexibility via support for Power over Ethernet (PoE), which simplifies deployment and dramatically reduces cost by eliminating the need for AC outlet installation at read points.

Key Features

- ✓ 2 antenna ports
- ✓ Power over Ethernet
- ✓ Autopilot (automatically senses environment and configures settings for best performance)
- ✓ Enterprise-class management and monitoring
- ✓ Support from industry-leading software vendors such as Microsoft and IBM
- ✓ Industry standard application interface with support for EPCglobal Low Level Reader Protocol (LLRP)
- ✓ Industry's best sensitivity
- ✓ Innovative features to enable read zone containment and eliminate stray reads
- ✓ High transmit power capable to overcome cable losses
- ✓ EPCglobal-compliant design
- ✓ Quality design resulting in industry's highest reliability



Technical Specifications

Model	236018
RF Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Typical Throughput in Challenging Environment (Autoset Dense Reader Mode for FCC)	300 tags/second
Supported Regions	US, Canada, and other regions following US FCC Part 15 regulations
Antennas	2 high performance, monostatic antenna ports
Transmit Power	10.0 to 30.0 dBm (PoE) 10.0 to 32.5 dBm (external universal power supply)
Max Receive Sensitivity	-82 dBm
Max Return Loss	10 dB
Application Interface	EPCglobal Low Level Reader Protocol (LLRP)
Network Connectivity	10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto-crossover (RJ-45)
IP Address Configuration	DHCP Static Link Local Addressing (LLA) with Multicast DNS (mDNS)
Time Synchronization	Network Time Protocol (NTP)
Management Interfaces	Management Console using serial management console port, telnet or SSH SNMPv2 MIBII EPCglobal Reader Management v1.0.1Syslog
Reliable Firmware Upgrade	Dual image partitions enable smooth transition to new firmware while the reader is still operating Scalable upgrade mechanism enables simultaneous scheduled upgrades of multiple readers
Management Console	RS-232 using a standard Cisco-style management Cable (DB-9 to RJ-45) Baud rate: 115200, Data: 8 bit, Parity: none, Stop: 1 bit, Flow control: none
USB	USB 1.1 Device (Type B) and Host (Type A) ports
GPIO	4 inputs, optically isolated 3V to 30V; 4 outputs, optically isolated, 0Vto30V, non-isolated 5V, 100mA supply (DB-15)
Power Sources	Power over Ethernet (PoE) IEEE 802.3af +24 VDC at800mA via external universal power supply with locking connector—sold separately
Power Consumption (Idle, Typical, LDC)	PoE at 30 dBm: 3 W, 11.5 W, 6 W Power Supply at 30 dBm: 3 W, 13.5 W, 6 W Power Supply at 32.5 dBm: 3 W, 15 W, 6 W
Environmental Sealing	IEC IP52
Operating Temperature	-20 °C to 50 °C
Humidity	5% to 95%, non-condensing
Dimensions (H x W x D)	7.5 x 6.9 x 1.2 in (19 x 17.5 x 3 cm)
Weight	1.5lbs (24.5 oz)
RoHS	Compliant to European Union directive 2002/95/EC



GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

**UHF Gen 2 Fixed RFID Reader/Writer with 2 Antenna ports
GAO 236018**



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