GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

**High Performance Integrated RFID Portal Reader
GAO 491020**

Make RFID portal deployment and operation easy and trouble-free with this high performance integrated RFID portal reader and still enjoy cost savings over traditional portal solutions.

This high performance, integrated RFID portal Reader combines an industry-leading EPCglobal UHF Class 1 Gen 2 RFID reader with a highly innovative Dual-Linear Phased Array (DLPA) antenna to create a sleek, small form factor, light weight and easy-to-install package. The high performance portal is meant for use in doorways, hallways or docks, and can also provide general zone coverage, for applications in offices, institutions such as healthcare facilities, for retail, or for attendance or access control applications and is ideal for monitoring pallets, equipment, files or people.

A pioneering feature of this portal is the ability of the RFID reader to automatically optimize the reader's operation for best read results in its current environment and to continuously make adjustments in a changing environment so that results remain optimal. Further, the reader employs dynamic antenna switching which allows it to determine tag location and orientation and automatically focus more attention to where the tags are actually located, thus allowing for greater efficiency and throughput.

In addition to the compact size, the integrated RFID portal Reader supports Power-over-Ethernet, (PoE) providing further cost savings and ease of deployment. Multiple mounting options are provided including keyhole slots, clearance holes, and threaded fasteners for a standard, off-the-shelf VESA mount that are used with flat screen TV mounting brackets or stands.

Features

✓ Includes industry-leading RFID reader

✓ Uses highly innovative Dual-Linear Phased Array (DLPA) for optimal tag visibility

✓ Beam switching and polarization attributes are dynamically managed by the reader, providing consistent, broad coverage of the read zone

✓ Automatically and continuously optimize the reader's operation for best read results

✓ Supports multiple mounting options including keyhole slots, clearance holes and standard VESA MIS-D

✓ Sleek, small form factor, light weight and easy-to-install

Technical Specifications

Air Interface Protocols	**EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C**
Supported Regions or Geographies	US, Canada and other regions following US FCC Part 15 regulations (902–928 MHz) Europe and other regions following ETSI EN 302 208 without LBT regulations (865–868 MHz)
Antennas	Dual-Linear Phased Array (DLPA) antenna technology
Radiated Power	FCC 4W EIRP, ETSI 2W ERP
HPBW (x-z plane)	60º ± 3º (3dB beam width)
HPBW (y-z plane)	80º ± 3º (3dB beam width)
Radome	High impact strength, UV, chemical and cleaning solution resistant
Transmit Power	FCC +10 to +28.5 dBm, ETSI +10 to +27.5 dBm
Max Receive Sensitivity	-82 dBm
Application Interface	EPCglobal Low Level Reader Protocol (LLRP) v1.0.1
Network Connectivity	10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto-crossover (RJ-45)
IP Address Configuration	DHCP, Static, or Link local Addressing (LLA) with Multicast DNS (mDNS)
Time Sychronization	Network Time Protocol (NTP)
Management Interfaces	console port, telnet or SSH SNMPv2 MIBII EPCglobal Reader Management v1.0.1 Syslog
Reliable Firmware Upgrade	Dual image partitions enable smooth transition to new firmware while the reader is still operating Scalable upgrade mechanism enabling simultaneous scheduled upgrades of multiple readers USB Flash Drive
Power Sources	Power over Ethernet (PoE) IEEE 802.3af +24 VDC @ 800 mA via external universal power supply with locking connector—sold separately
Environmental Sealing	IEC IP52
Operating Temperature	-20 ºC to +50 ºC
Humidity	5% to 95%, non-condensing
Dimensions (H x W x D)	30.5 x 8.75 x 2 in (77.5 x 22.2 x 5 cm)
Weight	6.5 lbs (3 kg)
Mounting Options	Keyhole slots, clearance holes, and integrated threaded fasteners (1/4-20 X 1/4") VESA MIS-D, 100/75, C (M4 x 7 mm thread depth) Conduit knockouts for easy termination of conduit Pass-through knockouts on back for data and power cabling
RoHS	Compliant to European Union directive 2002/95/EC

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