GAO RFID Inc.

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Celebrating Over 15 Year of Innovation

Product Overview

865 MHz to 868 MHz Multi-Protocol RFID Reader

275003

This multi-protocol UHF reader is designed for enterprise class applications and features best-in-class air interface performance.

This multi-protocol UHF Gen 2 RFID reader is developed for use in industrial applications such as supply chain, access control, dock door portals, and many other applications. It offers a wide portfolio of configuration and enterprise management tools and features best-in-class air interface and multi-protocol agility. The reader is available in 4 and 8 antenna port options providing for mono-static or bi-static configurations. In addition, the reader provides an intuitive installation wizard allowing the user to be able to begin reading tags within minutes.

Key Features

- ✓ Innovative "AutoPHY" feature

- ✓ Multi-protocol support

- ✓ 4 and 8 antenna port configurations

- ✓ Increased sensitivity while still rejecting interference, boosting performance in challenging dense reader environments

- ✓ Industry standard application interfaces with support for EPC Global Low Level Reader Protocol (LLRP) v1.0.1

- ✓ The bi-static configuration further enhances sensitivity in support of future Class 3 and "Battery Assisted Passive" (BAP) tag protocols

- ✓ Status LEDs for easy monitoring of device's status

- ✓ Upgradeable firmware permits forward compatibility for future protocols

Technical Specifications

Operating Frequency	UHF 865 MHz to 868 MHz
Standards	EPC Class 1 Gen 2, ISO 18000-6B and ISO 18000-6C
Operating Modes	Single Interrogator
	Multiple Interrogator
	Dense Interrogator
Communication	10/100 Ethernet Port
	USB1.1 Type B port
	Serial Port
	EIA/TIA-232-F
	115 kBaud with hardware handshaking (RTS/CTS), DCE
	Logical interfaces for GAO's CLI and EPCglobal's LLRP
	V1.0.1
GPIO	Digital input/output port
	4 – Optically coupled inputs, 25 V max. Controllable input reference
	4 – Open-collector outputs, 3 V to 40 V, 100 mA max, 1 W max
RF Power	+31.5 dBm, conducted
Input Power	24 V DC 10 W idle, 18 W typical (20 W maximum) at 30 dBm
Antenna Connection	RP-TNC connectors (reverse polarity)
LED Indicators	Power, Activity, Environment/User, Status
Upgradeable Firmware	Yes
Operating Temperature	-20 °C to 55 °C (-7 °F to 131 °F)
Relative Humidity	5% to 95%, non-condensing
Dimensions	246.7 mm x 184.15 mm x 55.6 mm
Weight	2.1 kg
Certification	RoHS, FCC Part 15, IC RS210, and IEC 60950
Case Material	Aluminum

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