



This 16 port reader is an ideal solution for applications such as applications such as smart-shelves for retail, document control and multi-lane reading for vehicle tracking,

This 16-Port Class 1 Gen 2 UHF reader has a long read range of up to 12 meters as well as a high read rate. It is Power-over-Ethernet (PoE) enabled allowing for deployment where power is not readily accessible. It can also be connected via USB. The reader has fine control of RF output from the 16 ports that enables very high speed antenna switching, making it suitable for finely tuned multiport applications such as smart-shelves for retail, document control, multi-lane reading for vehicle tracking, and applications that require either continuous monitoring or periodic inventory over a large segmented space. The 16 port reader also provides four GPIO controls: 2 general purpose input and 2 general purpose output. The included API provides for rapid application development reducing time to market.



Features

- ✓ 16 ports reader with long read range and high read rate
- ✓ Fine grain control of RF output for fast antenna switching
- ✓ Dense Reader Mode (DRM) available
- ✓ Global frequency coverage
- ✓ Ethernet connectivity, with POE (Power-over-Ethernet)
- ✓ 2 mounting methods: multiplexer box piggy-backed on top of main unit or side by side with the main unit



Technical Specifications

| | |
|---------------------------------|--|
| Physical Characteristics | |
| Dimensions (L X W) | 272 mm X 142 mm |
| Thickness | side by side: 25 mm & 22 mm piggy-backed: 47 mm |
| Weight | 1.15 kg |
| Read Range (with antenna) | 7 meters with AD431 tags from Avery Dennison and 12 meters with Dogbone tags from UPM Raflatec (for FCC version) |
| Read Rate | 300 tags/s per port for selected Gen 2 profile (max.) 150 tags/s per port (typical) |
| Protocol | ISO18000-6C, EPC UHF Class 1 Gen 2, Dense Reader Mode available |
| Frequency Range | One of the following 865-868 MHz, 865-867 MHz 902-928 MHz, 952-956.4 MHz 919-928 MHz, 910-914 MHz |
| Output Power | 27 dBm at RF connector (after multiplexer box) |
| RF Connectors | Reverse Polarity SMA Jack |
| External Control | 2 x GPO and 2 x GPI |
| Environment | |
| Operating Temp | -20C to 50C -40F to 122F |
| Storage Temp | -40 to 85C -40 to 185F |
| Humidity | 95% Non-condensing |
| Usage | Indoor use only, NEMA enclosure box is required for protection in outdoor environment |
| Connectivity | Ethernet (with PoE), USB |
| Other Connectivity | Compatible with Ethernet-to-USB bridge, Ethernet-to-WiFi bridge and Ethernet- to-GSM/CDMA bridge |
| Power Supply | 12 Volt DC supply, or use PoE (IEEE802.3af) |



GAO RFID Inc.

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Product Overview

16 Port UHF RFID Reader

GAO 216020



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