



***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

<b>Physical Characteristics</b>	
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
<b>Environment</b>	
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)



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*Product Overview*

**16 Port UHF RFID Reader**

**GAO 216020**



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