

## **2.45 GHz Active USB RFID Reader**

**Product ID 217003**



GAO RFID's 2.45 GHz Active USB RFID Reader uses a standard USB 2.0 interface to connect to any USB enabled computer device and provides a read range of 15 to 20 m. The Active USB reader operates in two different modes. In 'Direct' mode the USB reader transfers its data to the host system in real time. In 'Buffer' mode the reader can store its last 100 received messages and uploads them only when requested by the host system. The reader uses advanced 0.18  $\mu\text{m}$  CMOS IC technology for ultra-low power consumption. It operates in the unlicensed 2.45 GHz band allowing it to be deployed in any environment.

## **APPLICATIONS**

- Individual locating
- Logistics
- Warehouse Management
- Closed Loop Asset Tracking
- High Value Asset Tracking

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## KEY FEATURES

- ❑ Unlicensed 2.45 GHz frequency allows it to be deployed in any environment.
- ❑ Two different operating modes: Direct & Buffer.
- ❑ 0.18  $\mu\text{m}$  CMOS IC technology for ultra-low power consumption.
- ❑ Tag read speed of 100 tags/second.

## TECHNICAL SPECIFICATIONS

Direction	Omni-directional, standard whip antenna
Range	49.21 ft – 65.61 ft (15 m – 20 m)
Frequency	2.4 GHz to 2.5 GHz ISM
RF Output Power	0 dBm
Sensitivity	-85 dBm
Power	12.3 mA, 4 V – 5.25 V
Modulation	GFSK

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### TECHNICAL SPECIFICATIONS

Modes	Direct Mode and Buffering Mode. In direct mode, the reader uploads messages to the host system in real time. In buffering mode, the reader saves messages, which are uploaded only when requested by the host system.
Buffer Capacity	100 latest messages
Data Rate	2 Mbps
Interface	USB 2.0
Dimensions	2.33 in × 0.70 in × 0.35 in (59 mm × 18 mm × 9 mm)
Material	ABS
Operating Specifications	Operating Temperature: 32 °F- 122 °F (0 °C – 50 °C) Operating Humidity: 95 % Non-condensing
Multi-Detection	100 tags/sec

**ASK AN EXPERT!**  
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