

AC-01 V2

AC-01 V2 USB Compact and Versatile Desktop Reader Solution



The AC-01 V2 reader is a highly versatile desktop reader that uses RFID technology and offers an array of impressive features.

It operates in two modes: Autonomous Mode for automatic readings and Transparent Mode for software development and programming.

This flexibility makes the AC-01 V2 ideal for various use cases, from fast tag registration to checkout applications and beyond.

Thanks to its advanced functionality, the AC-01 V2 delivers remarkable performance with minimal setup.

Its USB interface allows for a quick and straightforward connection to a variety of devices, while its compact form factor makes it perfect for use in various environments.

Overall, the AC-01 V2 is an excellent choice for those in need of a high-performance RFID reader with a range of useful features.

Whether the goal is to automate processes, enhance efficiency, or streamline checkout applications, this versatile reader is equipped for the task.



KEY BENEFITS:

- **Compact design** won't take up much space on a desk or workstation
- **All-in-one design** includes an integrated antenna and reader
- **Plug-and-play reader** offers automatic reading to ensure effortless integration
- **Flexibility** for custom development and integration by using available API
- **Power and communication** via USB — easy and quick connection



KEY TECHNOLOGY HIGHLIGHTS:

- Compact design with integrated antenna
- Different reader modes to support a diverse array of applications
- UHF Reader designed for general purpose applications for short read range

TYPICAL APPLICATION AREAS:



- Access control
- Retail products reading
- Healthcare equipment monitoring
- Manufacturing product control

	AC-01 V2 USB
Base Model Number	100.720 (US)
	ELECTRONIC
Regulation	(BR) - 902 - 907.5 & 915 - 928 MHz (ANATEL) (USA) - 902 - 928 MHz (FCC)
RF Output power	0 to 27 dBm
Backscatter Link Frequency (BLF)	250 kHz
Reading distance¹	7.87 in (20 cm)
	POWER
Operating Voltage	5 VCC ±1%. (Host's USB port) Max. Ripple: 200mVpp @20 MHz
Consumption	Max. 3.8 W @ 5 VCC Read power 27 dBm
	CONNECTIVITY
Connectors	Communication and Power: USB Type-A male connector
Data communication	USB HID keyboard: The reader is recognized by the Operating System (Windows, Mac and Linux) as a keyboard type HID device. USB Serial CDC ² : When the reader is plugged into USB port, a serial port is created automatically (Windows 10, Mac, Linux).
Programming / Configuration	Autonomous Mode: The reader can be configured via serial communication using ASCII commands through a terminal application (such as Putty, Minicom, or Screen, etc) without the need for an API or SDK. It supports tag read-only functionality. Transparent Mode: The reader responds to software using the Mercury API and has tag read and write functionality.
	POWER
Operating Voltage	5 VCC ±1%. (Host's USB port) Max. Ripple: 200mVpp @20 MHz
Consumption	Max. 3.8 W @ 5 VCC Read power: 27 dBm
	PHYSICAL
Dimension	3.5 x 2.2 x 0.78 in (89 x 57 x 20 mm)
Weight	134 g / 4.7 oz / 0.3 lb
Mounting type	Desktop reader
Cable length	6.6 ft (2 m)
	CHEMICAL AND MECHANICAL
IP Rating	Internal use
Humidity	95%
	THERMAL
Storage	+14 °F to 140 °F (-10 °C to 60°C)
Operating	+14 °F to 131 °F (-10 °C to 55°C)
	BUILT-IN ANTENNA
Frequency	915 - 928 MHz
Circular Peak Gain	4.5 dBic
Lienar Peak Gain	1.5 dBi
Polarization	Circular (RHCP)
	OTHER
Protocol	EPCGlobal Gen2 (ISO 18000-6C) EPCGlobal Gen2 V2 (ISO 18000-63) (Transparent Mode)
Warranty	2 years

1- Reading distance may vary depending on the tag used and the reader's usage environment.

2- Windows 7 and 8 requires driver installation.



Countries	Part Number	Description
United States of America (USA) 	100.720	AC-01 V2 USB UHF Reader Cable 2m
Brazil* 	100.510	AC-01 V2 USB UHF Reader Cable 2m

