# 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 highperformance 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

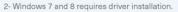
	ELECTRONIC		
Regulation	(BR) - 902 - 907.5 & 915 - 928 MHz (ANATEL) (USA) - 902 - 928 MHz (FCC)		
RF Output power	0 to 27 dBm		
Backscatter Link Frequency (BLF)	250 kHz		
Reading distance <sup>1</sup>	7.87 in (20 cm)		
	POWER		
Operating Voltage	5 VCC ±1%. (Host's USB port) Max. Ripple: 200mVpp @20 MHz		
Consumption	Max. 3.8 W @ 5 VCC   Read power 27 dBm		
	CONECTIVITY		
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 <sup>2</sup> : 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 lenght	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)		

AC-01 V2 USB 100.720 (US)

Base Model Number

2 years

Warranty











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



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