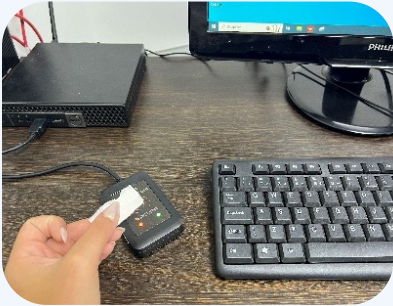


AC-01 V2

AC-01 V2 USB Compact and Versatile Desktop Reader Solution



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

Equipped with two distinct operating modes — Autonomous Mode for automatic readings and Transparent Mode for custom software development and programming — the AC-01 V2 adapts to meet various use case requirements.

This versatility makes the AC-01 V2 perfect for a wide range of applications, from fast tag registration to seamless checkout processes and more. With its advanced functionality, the AC-01 V2 delivers outstanding performance with minimal setup, ensuring a smooth and efficient user experience.

Its USB interface ensures fast and effortless connectivity to a wide range of devices, while its compact design makes it an ideal fit for diverse environments.

Overall, the AC-01 V2 is an outstanding choice for those seeking a high-performance RFID reader packed with essential features. Whether looking to automate workflows, boost efficiency or optimize checkout processes, this versatile reader is fully equipped to meet the challenge.



KEY BENEFITS:

- **Compact design** that fits seamlessly on any desk or workstation
- **All-in-one design** includes an integrated antenna and reader
- **Plug-&-play reader** offers automatic reading to ensure effortless integration
- **Flexibility** for custom development and integration by using available API
- **Power and connected via USB** for easy, fast, and reliable communication

TYPICAL APPLICATION AREAS:

- Access control
- Retail products reading
- Healthcare equipment monitoring
- Manufacturing product control
- Tag registration and enrollment into a system

AC-01 V2



	AC-01 V2 USB
Base Model Number	100.510 (BR) 100.720 (US)
	ELECTRONIC
Regulation	(BR) - 902 - 907.5 & 915 - 928 MHz (ANATEL) (US) - 902 - 928 MHz (FCC)
RF Output power	0 to 27 dBm
Mode	Frequency Hopping
Modulation / RF Coding	PR-ASK / M2, M4, M8
Backscatter Link Frequency (BLF)	250 kHz
Reading distance¹	7.87 in (20 cm)
Physical Interface	Communication and Power: USB Type-A male connector
Communication Interface	USB HID keyboard: The reader is recognized by the operating system (Windows, Mac and Linux) as a HID device. USB Serial CDC²: When the reader is connected via USB, a serial port is automatically created on Windows 10, Mac and Linux operating systems. Windows 7 and 8 need driver installation.
Programming	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)
Mounting method	Desktop reader
Weight	134 g / 4.7 oz / 0.3 lb
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
Standards	EPCGlobal Gen2 (ISO 18000-6C) EPCGlobal Gen2 V2 (ISO 18000-63) (Transparent Mode)
Warranty	1 year

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

2- Windows 7 and 8 requires driver installation.



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