



Product Family | FCC UHF RFID Reader (902-928 MHz)
Product Code | VUL-USB-EMBER-US
VUL-USB-EMBER-II-US

EMBER

USB Reader Family

The Vulcan RFID Ember USB Reader is a compact, versatile UHF RFID reader ideal for a variety of applications. About the **size of a deck of cards**, it features a **built-in antenna** for precise tag readings. With **two operating modes**, autonomous for automatic reads and transparent for software development, this reader has the flexibility to meet both straightforward and complex deployments.

Ready out of the box with plug-and-play setup, **keyboard wedge emulation** enables automatic input of tag data into any system.

The **Ember** features the M6E module and is compatible with Read, Write, & Verify Software, which supports **Windows, Mac, and Linux** systems. For enhanced performance, an upgraded **Ember II** configuration is available with the M7E-DEKA module, offering improved sensitivity and lower power consumption. Read, Write, & Verify Software is compatible with the original **Ember** (M6E) only and is not supported on **Ember II**.

A compact design that uses a **single USB cable** for power and data enables the **Vulcan RFID Ember** to support a wide range of applications, such as:

- Access control
- Retail product management
- Healthcare equipment monitoring
- General tag encoding

*Depending on order volume, the **Vulcan RFID Ember** can be designed with a **custom faceplate, connector type, or color** to align with your brand or application.*



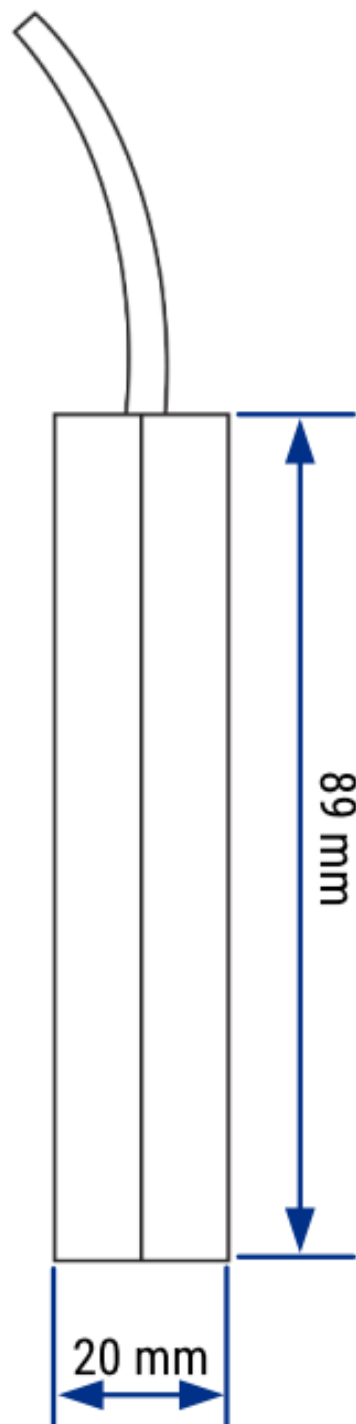
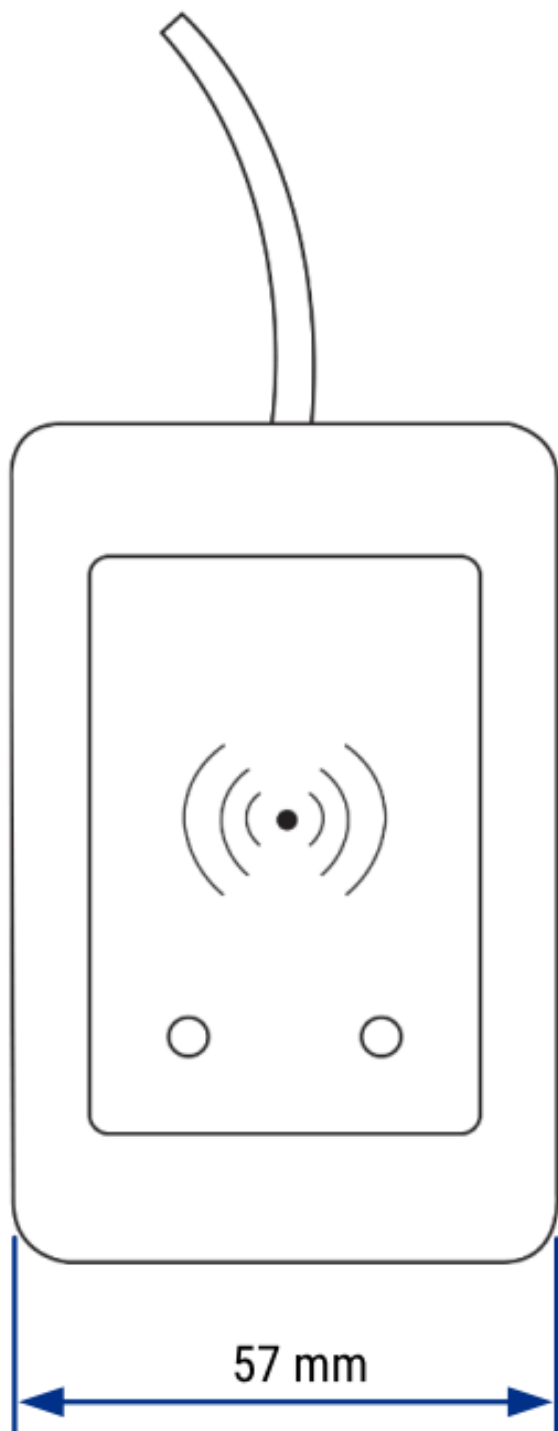


Specifications

ELECTRICAL	Operating Frequency:	FCC (902-928 MHz)
	Air Interface Protocol (Autonomous Mode):	EPCGlobal Gen2 (ISO 18000-6C)
	Air Interface Protocol (Transparent Mode):	EPCGlobal Gen2 V2 (ISO 18000-63)
	Transmit Power:	Programmable from 0 dBm to 27 dBm in 0.5 dBm Steps
	Max Receive Sensitivity:	Testing Recommended
	Max Read Rate:	Testing Recommended
	Max Read Distance:	Testing Recommended
	Data Interface:	USB HID Keyboard, USB Serial CDC
	Power Source:	Included USB Cable
	RFID Module:	M6E Series (Ember) / M7E-DEKA (Ember II)
MECHANICAL	Antenna Ports:	None/Internal Antenna
	Dimensions:	89 x 57 x 20 mm (3.5 x 2.2 x 0.78 in)
	Weight:	0.14 kg (0.3 lbs)
ENVIRONMENT	Operating Temperature:	-10°C to +55°C (+14°F to +131°F)
	IP Rating:	Indoor Use
APPLICATION INTERFACE	Host API:	C, .NET (C#), Java



Diagrams





Accessories & Compatible Products

Vulcan RFID Power Mapper



VUL-MAPPER

Vulcan RFID Read, Write & Verify



VUL-UHF-READ-WRITE-SOFTWARE

Note: Not compatible with Ember II

RFID Tag Sample Pack



RFID-TSP



About Vulcan RFID Products

Vulcan RFID offers a broad range of innovative RFID readers, antennas, custom RFID tags, and accessories suited for a wide variety of industries and applications. Designed to deliver superior accuracy and reliability, Vulcan RFID products offer exceptional flexibility and performance. Vulcan RFID delivers an extensive product portfolio that includes both UHF and NFC products that support a large variety of market solutions. Manufactured to withstand environments ranging from mild to extreme, Vulcan RFID products enable end-users to reach and sustain high levels of performance in the UHF or NFC frequency bands.



Vulcan RFID Readers

Vulcan RFID offers high-performance RFID readers that are easy to install, configure, and integrate.

[Shop Now](#)


Vulcan RFID Antennas

Vulcan RFID offers an extensive collection of UHF RFID antennas designed to maximize the RF performance and coverage area of an RFID system.

[Shop Now](#)


Vulcan RFID Tags & Inlays

Vulcan RFID offers a broad range of RFID labels, tags and inlays built to withstand environments ranging from mild to extreme.

[Shop Now](#)


Vulcan RFID Accessories

Vulcan RFID provides a variety of high-quality accessories, RF hardware, and cables.

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