SAG MAX66300 HF Reader Module

SAG MAX66300 HF Reader Module Owner's Manual

Contents

SAG MAX66300 HF Reader Module

Product Information

Specifications

- **Product:** MAX66300 HF Reader Module
- **Model Number:** 491192002
- **Dimension:** 45mm (W) x 55mm (L) x 5.95mm (T)
- **RFID Chip:** Analog Device MAX66300
- **Memory:** Four 32-Byte Pages of User Memory
- **Operating Frequency:** 13.56 MHz
- **Warranty:** One Year
- **IP Rating:** IP5X

Product Usage Instructions

Physical Specification

- **Dimension:** W 45 mm L 55 mm T 5.95 mm
- **Color:** Green PCB

RF Specification

- **RFID Chip:** Analog Device MAX66300
- **Memory:** Four 32-Byte Pages of User Memory
- **Communication Standard:** ISO/IEC 15693 and 14443 Type A Standard Compliant
- **Operating Frequency:** 13.56 MHz

Label Information

Pin No.	PIN DEFINE
1	VCC3.3

Frequently Asked Questions (FAQ)

- **Q: What is the warranty period for the MAX66300 HF Reader Module?**
  A: The warranty period for the MAX66300 HF Reader Module is one year.
- **Q: What is the operating temperature range of the module?**
  A: The operating temperature range of the module is not specified in the provided information.

Product Datasheet

• PRODUCT DATASHEET • MAX66300 HF Reader Module 491192002	Issue Date: 2024/07/17 Version: A

Approver	Examiner	Editor

MAX66300 HF Reader Module

Features

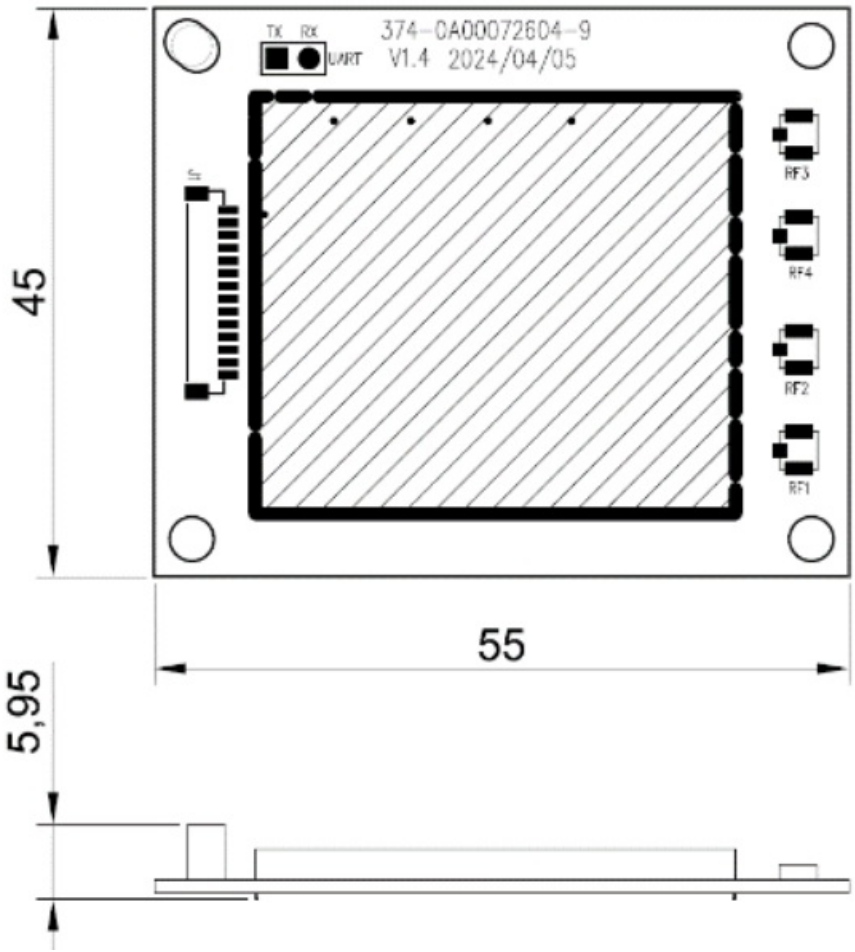
- Reader Module 55 x 45 x 5.95mm

- ISO/IEC 15693 and 14443 Type A Standard Compliant
- SHA-256 Engine to Run a Symmetric Key-Based Bidirectional Secure Authentication
- Scalable 13.56MHz Analog Front-End

Applications

- Secure Access Control
- Authentication of Consumables
- Asset-Tracking

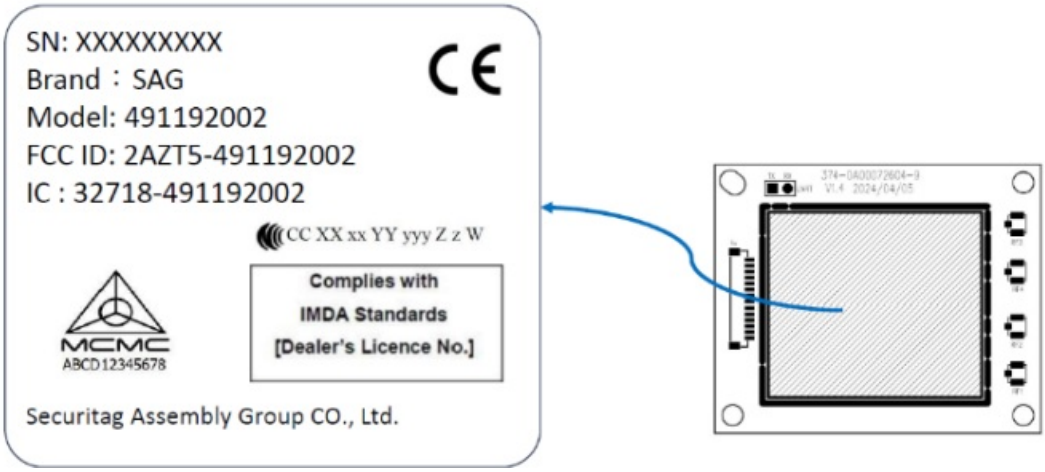
Physical Specification



	W	45	mm
	L	55	mm
Dimension	T	5.95	mm
*The exact size is mainly based on metric unit.			
Color	Green		
Material	PCB		

RF Specification	
RFID Chip	Analog Device MAX66300
Memory	Four 32-Byte Pages of User Memory
Communication Standard	ISO/IEC 15693 and 14443 Type A Standard Compliant
Operating Frequency	13.56 MHz
Environmental Resistance	
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Warranty	One Year
IP Rating	IP5X

Label Information



PIN Define

Pin No.	PIN DEFINE	Basic Description	Voltage	Type
1	**VCC3.3**	3.3V Power Supply	3.3VDC	Power
2	**VCC5**	5V Power Supply	5VDC	Power
3	**MISO**	Master in-Slave Out	5VDC	SPI
4	**MOSI**	Master Out-Slave In	5VDC	SPI
5	**SCLK**	Serial Clock	5VDC	SPI
6	**SSEL**	Slave Select	5VDC	SPI
7	**GPIO1**	General-purpose input/output 1	3.3VDC	I/O
8	**GPIO2**	General-purpose input/output 2	3.3VDC	I/O
9	**IRQ**	Interrupt Out	5VDC	I/O
10	**SLEEP**	Sleep Mode	5VDC	I/O
11	**BUSY**	Busy Out	3.3VDC	I/O
12	**PORTSLCT**	Port Select In	5VDC	I/O
13	**TP**	Test Pin	3.3VDC	I/O
14	**GND**	Ground	—	GND

Notice

FCC Supplier's Declaration of Conformity §2.1077(a)(3)
Name: Brady Worldwide
Address: 6555 W Good Hope Rd PO Box 2131 Milwaukee WISCONSIN 53201 USA
Telephone number or Internet contact: (414)228-5688
The OEM or integrator is obligated to adhere to these requirements and restrictions as a condition for using the module's certification. The OEM or integrator is responsible to perform the required additional host regulatory testing and/or obtaining the required host approvals for compliance.
Per KDB 996369 D03 v01r01 OEM Manual, this module is intended for OEM integrators under the following conditions: Ensure that the end-user has no manual instructions to remove or install module.

List of applicable FCC and ISED rules
This module is certified pursuant to Part 15 rule section 15.225 and RSS-210.

Summarize the specific operational use conditions
This module has been approved to operate with the antenna types listed below:

Frequency Band	Model Number	Antenna Type
13.56MHz	39×55 Ant V9	Loop Antenna

- Limited module procedures Not applicable.
- Trace antenna designs Not Applicable.

RF exposure considerations
This module is restricted to installation in products for use only in mobile and fixed applications.

The host product manufacturer must provide following statement in end-product manuals.
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Antennas
This module has been approved to operate with the antenna types listed below:

Frequency Band	Model Number	Antenna Type
13.56MHz	39×55 Ant V9	Loop Antenna

Label and compliance information
Label of the end product:

FCC:
The host product must be labeled in a visible area with the following ” Contains FCC ID: 2AZT5-491192002″.
The end product shall bear the following 15.19 statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

ISED:
This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: “Contains transmitter module IC: 32718-491192002” or “Contains IC: 32718-491192002”
The Host Model Number (HMN) must be indicated at any location on the exterior of the end product or product packaging or product literature which shall be available with the end product or online.

Information on test modes and additional testing requirements
This module has been approved under stand-alone configuration.
The separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093/RSS-102 and different antenna configurations.
The information on how to configure test modes for host product evaluation for different operational conditions for a stand-alone modular transmitter in a host, versus with multiple, simultaneously transmitting modules or other transmitters in a host can be found at KDB Publication 996369 D04.
OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC/ISED authorization is no longer considered valid and the FCC/IC No. cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC/ISED authorization.
2.10 Additional testing, Part 15 Subpart B and ICES-003 disclaimer
Appropriate measurements (e.g. Part 15 Subpart B compliance) and if applicable additional equipment authorizations (e.g. SDoC) of the host product to be addressed by the integrator/manufacturer.
This module is only FCC/ISED authorized for the specific rule parts 15.225, RSS-210 listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC/ISED rules that apply to the host product as being Part 15 Subpart B/ICES-003 compliant.

Note EMI Considerations
Note that a host manufacture is recommended to use D04 Module Integration Guide recommending as “best practice” RF design engineering testing and evaluation in case non-linear interactions generate additional non-

compliant limits due to module placement to host components or properties
For standalone mode, reference the guidance in D04 Module Integration Guide and for simultaneous mode; see D02 Module Q&A Question 12, which permits the host manufacturer to confirm compliance.

How to make changes
If any changes or modifications need to be made to the integrated product, such as adding or adjusting the antenna or cable, follow the guidelines provided by Grantee.
For further assistance, please contact: **mark@sag.com.tw**
The user manual of the end product should include (information for OEMs):
The module must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.
Information To Be Supplied to the End User by the OEM or Integrator

FCC:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
The antenna(s) used for this transmitter must not transmit simultaneously with any other antenna or transmitter.

ISED:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

ISED Radiation Exposure Statement:

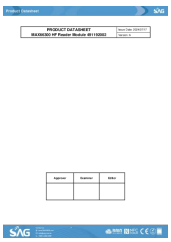
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

The end user manual shall include all required regulatory information/warning as shown in this document.

Contact us:

www.SAG-RFID.com
info@sag.com.tw
+886-4-2492-5298

Documents / Resources

	SAG MAX66300 HF Reader Module [pdf] Owner's Manual 491192002, 2AZT5-491192002, 2AZT5491192002, MAX66300 HF Reader Module, MAX66300, MAX66300 Module, HF Reader Module, Module, HF Module, Reader Module

References

- User Manual