

TS100 and TS100A

Hardware User Guide



Any part of the contents of this document, without the express written GIGA-TMS permission, shall not in any documents, electronic, mechanical form of remakes or spread. File contents are subject to change without notice.

Revisions

Revision	Date	Description
01	Dec 18, 2018	Preliminary draft



Has been tested in accordance to essential protection requirements of the RED – DIRECTIVE 2014/53/EU, EU-LOW VOLTAGE DIRECTIVE 2014/35/EU on the approximation of the laws of the Member States relating to Radio Spectrum Matters and found the test results indeed meet the limitation of the relevant test standard(s) listed below:

EMC	Radio Spectrum	Safety	Health
EN 301 489-1 : V2.2.0 (2017)	EN 302 208 V3.2.0 (2018)	IEC 62368-1 : 2014 / COR1:2015 and EN 62368-1:2014 / A11:2017	EN62311 : 2008
EN 301 489-3 : V2.1.1 (2017)	EN 300 328 V2.1.1 (2016)		
EN 301 489-17 : V3.2.0 (2017)			



Test standard: FCC rules Part 15 subpart B

Test Result: Radiated Emission. FCC Part 15.109/15.107 Class B Test passed.

Test standard: FCC rules Part 15 subpart C 15.247 (2017 - 10)

Test Result: No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Warning

Federal Communication Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Contains transmitter module: FCC ID: 2AC7Z-ESPWROOM02, FCC ID: 2AE2I-ACI810700S

LIMITED WARRANTY

Giga-Tms warrants that the products sold pursuant to this Agreement will perform in accordance with Giga-Tms's published specifications. This warranty shall be provided only for a period of **one year** from the date of the shipment of the product from Giga-Tms (the "Warranty Period"). This warranty shall apply only to the "Buyer" (the original purchaser, unless that entity resells the product as authorized by Giga-Tms, in which event this warranty shall apply only to the first re-purchaser).

During the Warranty Period, should this product fail to conform to Giga-Tms's specifications, Giga-Tms will, at its option, repair or replace this product at no additional charge except as set forth below. Repair parts and replacement products will be furnished on an exchange basis and will be either reconditioned or new. All replaced parts and products become the property of Giga-Tms. This limited warranty does not include service to repair damage to the product resulting from accident, disaster, unreasonable use, misuse, abuse, negligence, or modification of the product not authorized by Giga-Tms. Giga-Tms reserves the right to examine the alleged defective goods to determine whether the warranty is applicable.

Without limiting the generality of the foregoing, Giga-Tms specifically disclaims any liability or warranty for goods resold in other than Giga-Tms's original packages, and for goods modified, altered, or treated without authorization by Giga-Tms.

Service may be obtained by delivering the product during the warranty period to Giga-Tms (8F No. 31 Lane 169, Kang Ning Street, Hsi Chih Dist New Taipei City, Taiwan). If this product is delivered by mail or by an equivalent shipping carrier, the customer agrees to insure the product or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or equivalent. Giga-Tms will return the product, prepaid, via a three (3) day shipping service. A Return Material Authorization ("RMA") number must accompany all returns. Buyers may obtain an RMA number by contacting with sales@gigatms.com.tw

EACH BUYER UNDERSTANDS THAT THIS GIGA-TMS PRODUCT IS OFFERED AS IS. GIGA-TMS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND GIGA-TMS DISCLAIMS ANY WARRANTY OF ANY OTHER KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF THIS PRODUCT DOES NOT CONFORM TO GIGA-TMS'S SPECIFICATIONS,

THE SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. GIGA-TMS'S LIABILITY, IF ANY, SHALL IN NO EVENT EXCEED THE TOTAL AMOUNT PAID TO GIGA-TMS UNDER THIS AGREEMENT. IN NO EVENT WILL GIGA-TMS BE LIABLE TO THE BUYER FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF, OR INABILITY TO USE, SUCH PRODUCT, EVEN IF GIGA-TMS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

LIMITATION ON LIABILITY

EXCEPT AS PROVIDED IN THE SECTIONS RELATING TO GIGA-TMS'S LIMITED WARRANTY, GIGA-TMS'S LIABILITY UNDER THIS AGREEMENT IS LIMITED TO THE CONTRACT PRICE OF THIS PRODUCT.

GIGA-TMS MAKES NO OTHER WARRANTIES WITH RESPECT TO THE PRODUCT, EXPRESSED OR IMPLIED, EXCEPT AS MAY BE STATED IN THIS AGREEMENT, AND GIGA-TMS DISCLAIMS ANY IMPLIED WARRANTY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

GIGA-TMS SHALL NOT BE LIABLE FOR CONTINGENT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES TO PERSONS OR PROPERTY. GIGA-TMS FURTHER LIMITS ITS LIABILITY OF ANY KIND WITH RESPECT TO THE PRODUCT, INCLUDING ANY NEGLIGENCE ON ITS PART, TO THE CONTRACT PRICE FOR THE GOODS.

GIGA-TMS'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDIES ARE STATED IN THIS SECTION AND IN THE SECTION RELATING TO GIGA-TMS'S LIMITED WARRANTY.

Contents

Chapter 1 : Introduction	1
Introduce	1
Fitting	1
Chapter 2 : About TS100(TS100A)	2
Specification	2
LED Indication	3
Chapter 3 : Troubleshooting	5
Contact Us	6

Chapter 1 : Introduction

Introduce

The TS100 and TS100A include Antenna. It is all in one Ultra High Frequency RFID Reader compliant to ISO18000-6C EPC Gen 2 protocol with an operating range of 860 to 960 MHz. TS100 include USB HID connect to POS or PC. And TS100A have extra USB HID can connect to barcode scanner.

Before using the TS100 (TS100A) Reader. We recommend that you should already read this user guide.

Fitting



TS100 Top View



TS100A Top View

Please download software or user guide from following link.
<http://ftp.gigatms.com.tw/disks/disk5472>



Scan QR code with your phone.

TM921265-04B

Software download table

Chapter 2 : About TS100(TS100A)

Specification

	TS100 series		
PART NO	TS100	TS100A	
Standard			
RFID spec	ISO 18000-6C, EPC Class1 Gen2		
Operating Frequency	860-960Mhz Multi-regional Support		
Interface	Wire - USB HID keyboard emulation Wireless - 1) 2.4GHz WIFI, 802.11 b/g/n 2) BLE (optional)		
Power Require	Working : Max 500A@5VDC		
Dimension	L: 180mm / W: 155mm / H: 9.5mm (without rubber foot)		
Physical Characteristics			
Weight	396 g	427 g	
Environment parameter			
Temperature	Operating : -10°C ~ +60°C		
	Storage : -15°C ~ +65°C		
Humidity	Operating : +0% ~ +90% (no coagulation)		
	Storage : MAX 90% (no coagulation)		
Regulatory approvals			
Authentication	CE R&TTE	FCC ID	
	EN 301 489-1 : V2.2.0 (2017)	Part 15 subpart B 15.109/15.107	
	EN 301 489-3 : V2.1.1 (2017)	Part 15 subpart C 15.247 (2017 - 10)	
	EN 301 489-17 : V3.2.0 (2017)		
	EN 302 208 V3.2.0 (2018)		
	EN 300 328 V2.1.1 (2016)		
	IEC 62368-1 : 2014 / COR1:2015		
	EN 62368-1:2014 / A11:2017		
	EN62311 : 2008		
	ESD Contact : 4kv , Air : 8kv		

LED Indication

TS100

Status	LED Status			TS100 mode	Buzzer
	Single LED	Dual LED			
	Blue	Red	Green		
1	-	-	●	Reader Mode	Change mode Success : Long beep Failure : Short beep
2	-	-	●	Customized Reader Mode	
3	-		●	Tag Analysis Mode	
4	●	-	●	Deactivate Mode	
5	●	●	-	Reactivate Mode	
6	●		●	Configure mode	



TS100A

Status	LED Status			TS100A mode	Buzzer
	Single LED	Dual LED			
	Blue	Red	Green		
1	-	-	●	Reader Mode	Change mode Success : Long beep Failure : Short beep
2	-	-	●	Customized Reader Mode	
3	-		●	Tag Analysis Mode	
4	●	-	●	Deactivate Mode	
5	●	●	-	Reactivate Mode	
6	●		●	Configure mode	
7	●	-	-	Encoder Mode	
8	-	●	-	Barcode Verify Mode	



Chapter 3 : Troubleshooting

1. **Cannot connect to TS100(TS100A) with TS100(TS100A) software?**
 - Please check that the TS100(TS100A) is actually connected to the POS or PC.
 - Please check the power light of TS100(TS100A) is lighting

Contact Us

Address:

8F, NO.31, Lane 169, Kang-Ning Street, His-Chih Dist, New Taipei City, Taiwan

Tel:

886-2-26954214

Fax:

886-2-26954213

Websites:

www.gigatms.com.tw

Email:

Sales inquiry email - promag@gigatms.com.tw

After sales service - support@gigatms.com.tw

