UE600

User Guide

GIGA-TMS INC.
Quality, Delivery & Service

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April 16, 2015

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Revisions

Revision	Date	Description
01	April 16, 2015	preliminary draft

Has been tested in accordance to essential protection requirements of the R&TTE Directive 1999/5/EC 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
EN 301 489 - 1: V1.9.2 (2011)	EN 302 208 - 2: V1.4.1 : 2011	EN 60950-1:2006+A11:2009+A1:2010+ A12:2011+A2:2013
EN 301 489 - 3: V1.6.1 (2013)	EN 302 208 - 1: V1.4.1 : 2011	

Test standard: FCC rules Part 15 subpart C 15.247 (2013 - 10)
Test Result: No deviations from the technical specification(s) were ascertained in the course of the tests performed.
Test standard: FCC rules Part 15 subpart B
Test Result: Radiated Emission. FCC Part 15. 109 / 15.107 Class B. Test passed.

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.

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Chapter 1：Introduction

Introduce

The UE600 is a desktop Ultra High Frequency RFID Reader compliant to ISO18000-6C EPC Gen 2 protocol with an operating range of 840 to 960 MHz. And UE600 also easy to use USB HID to connect PC and have auto sensor which can auto read 、write Tag.

The software UE600 Tag Issuer is supplied with the reader for Tag reading and writing.

Before using the UE600 Reader. We recommend that you should already read this user guide.

Fitting

UE600 include antenna. The appearance as shown below

UE600 Top view

UE600 USB Interface

60cm USB cable

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

table

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Chapter 2：About UE600

Specification

	USA	Europe
UE600	UE600-00	UE600-30
Standard		
RFID spec	ISO 18000-6C, EPC Class1 Gen2	
Frequency Range	902~928 MHz	865~868 MHz
RF power	Max 16dBm	
Interface	USB HID	
Power Require	Standby : 110mA@5VDC Working : 300mA@5VDC, Min power require : 500mA@ 5VDC	
RF Reading Range	Max 20 cm (depending on Tag)	
Dimension	L: 120mm / W: 86mm / H: 79mm	
Physical Characteristics		
Weight	150g (not Include USB cable)	
Environment parameter		
Temperature	Operating : -10°C ~ 60°C Storage : -15°C ~ 65°C	
Humidity	Operating : 10% ~ 90% (no coagulation) Storage : Max 90% (no coagulation)	
Regulatory approvals		
Authentication	CE R&TTE EN 302 208-1/-2 EN 301 489-1/-3 EN 60950-1	FCC ID PART 15B/C
	ESD Conduct : 6kv , Air : 8kv	

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LED Indication

Status / Color	Power / Red	Read / Green	Write / Yellow	Buzzer / Beep
Power ON	ON	ON	ON	a beep
Standby	ON	OFF	OFF	OFF
Read Success	ON	ON	OFF	a beep
Read Fail	ON	ON	OFF	3 beeps
Write Success	ON	OFF	ON	a beep
Write Fail	ON	OFF	ON	3 beeps

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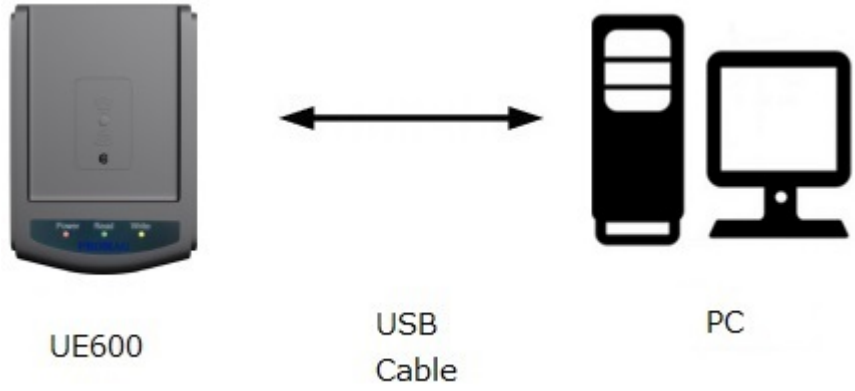
Chapter 3：How to Use UE600

Before Installing



Before Install UE600. Please make sure the following items are ready.

- A computer (Window XP / Vista / 7 or higher version systems) which already installed **UHF Tag Manager**.
- A UE600 reader with USB cable.
- UHF Tags (ISO18000 Class 1 Gen 2).

Start to Use UE600

- Connecting UE600 on USB port of your PC.
- Executing the software **UHF Tag Manager** to connect UE600.
- Please refer to **UE600 Software User Guide**. There are instructions about how to read/write tags.

NOTE

- The performance might be better or worse according to different tags and working environments.
- UE600 can only read one tag at a time. Therefore, please keep other tags about 40cm away to reduce the interference.
- Do not put tags to or near metal objects or liquid surface as possible.
- Make sure there are not any same frequency devices or large power equipment in the same area.

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Chapter 4：Troubleshooting

1. Cannot connect to UE600 with UHF Tag Manager?

- Please check the Power light of UE600 is lighting.
- Please check USB cable is connecting well to PC.

2 Cannot read UHF Tags?

- Please check the software **UHF Tag Manager** can find out UE600 and connect to it.
- Please check the tag is a 'UHF' tag and is functional.
- While you put a UHF tag on the top of UE600 and execute read command (or Auto) , the 'Read' light shall light up once.

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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

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TA500

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Chapter 1：Introduction

Introduce

The TA500 is a desktop Ultra High Frequency RFID Reader compliant to ISO18000-6C EPC Gen 2 protocol with an operating range of 840 to 960 MHz. As a smart UHF reader, TA500 also supports EPC Encoding and Decoding feature compatible with EPC Tag Data Standard (TDS) of GS1. And TA500 also easy to use USB HID to connect PC and have auto sensor which can auto read Tag.

The software TA500 Tag Issuer is supplied with the reader for Tag reading and analysis.

Before using the TA500 Reader. We recommend that you should already read this user guide.

Fitting

TA500 include antenna. The appearance as shown below

TA500 Top view

TA500 USB Interface

60cm USB cable

Please download software or user guide from following link:
http://ftp.gigatms.com.tw/disks/disk5473/

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Specification

	USA	Europe
TA500	TA500-00	TA500-30
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Read Fail	ON	ON	3 beeps

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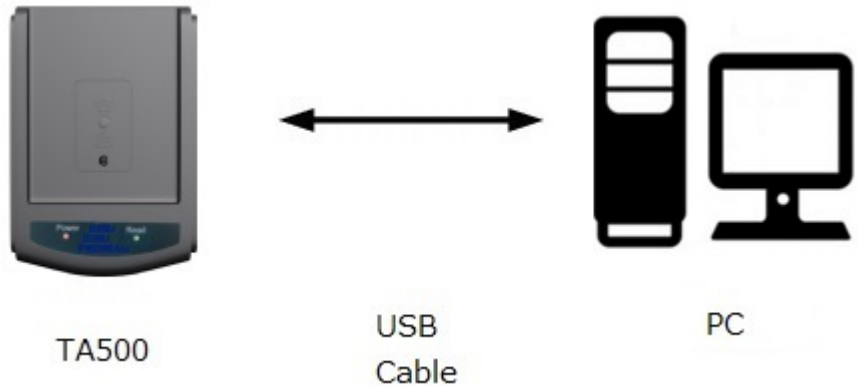
Chapter 3：How to Use TA500

Before Installing



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- A TA500 reader with USB cable.
- UHF Tags (ISO18000 Class 1 Gen 2).

Start to Use TA500

- Connecting TA500 on USB port of your PC.
- Executing the software **UHF Tag Manager** to connect TA500.
- Please refer to **TA500 Software User Guide**. There are instructions about how to read tags.

NOTE

- The performance might be better or worse according to different tags and working environments.
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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

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