

MU400

Hardware User Guide



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Revisions

Revision	Date	Description
01	Aug 31, 2018	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	LVD	MPE SAR
EN301489-1-3	EN300328_868MHZ	EN62368	EN62479
EN55032/EN55024			



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. 107 Class B. Test passed.



NCC RF LP0002_Base on FCC

Warning

Federal Communication Commission 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.

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.

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Chapter 1 : Introduction

Introduce

The MU400 is a Ultra High Frequency RFID Reader compliant to ISO18000-6C EPC Gen 2 protocol with an operating range of 860 to 960 MHz. MU400 have two interface type (Com port or USB HID). And operate on Android device which is easy to read EPC

Before using the MU400 Reader. We recommend that you should already read this user guide.

Fitting

MU400 include antenna. The appearance as shown below



MU400 Top View



Software download table

Chapter 2 : About MU400

Specification

	MU400		
PART NO	MU400C		
Standard			
RFID spec	ISO 18000-6C, EPC Class1 Gen2		
Interface	COM PORT		
Power Require	Standby : Max 30mA@5VDC		
	Working : Max 300mA@5VDC		
Dimension	L: 55.5mm / W: 41.5mm / H: 10.3mm		
Physical Characteristics			
Weight	17.5g		
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	NCC
	EN300328_868MHZ	PART 15B/C	
	EN301489-1-3		
	EN55032/EN55024		
	EN62368		
	EN62479		
	ESD Contact : 4kv , Air : 5kv		

LED Indication

STATUS / COLOR	Green Light
POWER ON	ON
POWER OFF	OFF



Green Light (Power)

Chapter 3 : How to use MU400

Before Installing



Before Install MU400. Please make sure the following items are ready.

A MU400

An Android device which have Type C interface and already installed MU400 APP (DISK5486)

Start to use MU400

- The MU400 use a Type C to connect the Android device.
- Open MU400 APP to connect the MU400.
- Please refer to **MU400 Software User Guide**. There are instructions about how to read tags.

Chapter 4 : Troubleshooting

1. **Cannot connect to MU400 with MU400 APP?**
 - Please check that the MU400 is actually connected to the Android device
 - Please check the power light of MU400 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

