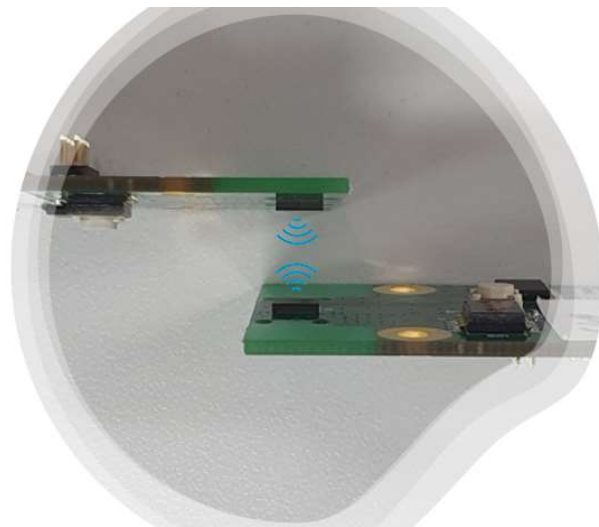


Approval Sheet

(Ver0.1)

Product : V-WC100A



Designed	CHECKED	APPROVAL
2023. 6. 1.	2023. .	2023. .

Table of Contents

1. Overview	3
2. Applications	3
3. Electrical characteristics	4
3.1 Nominal Operating Conditions.....	4
3.2 RF Characteristics	4
4. Antenna on package.....	4
5. Board Definition	6
5.1 TOP/Bottom side.....	6
6. Setting.....	7
6.1 USB Connection.....	7
6.2 Dip Switch Settings	7
7. Dimension & Order Information.....	8
7.1 Dimension.....	8
7.2 Order Information.....	8

1. Overview

- ✓ 60GHz Wireless Connectivity
- ✓ Up to 480bit/s(USB)
- ✓ 1.8V supply voltage
- ✓ RF tunneling
- ✓ Antenna on package
- ✓ Size : 28 x 56mm
- ✓ Weight : 7g

2. Applications

- ✓ Wireless USB
- ✓ Board to board connection
- ✓ Industrial contactless connectors

3. Electrical characteristics

3.1 Nominal Operating Conditions

Parameter	Min	Typ	Max	Unit
Supply voltage	-	5	12.0	V
Supply current(standby)	22	-	60	mA
Supply current(RF link)	210	-	270	mA
Data Rate(USB)	-	480	-	Mbit/s
Operating temperature	-20		+85	°C

3.2 RF Characteristics

Parameter	Min	Typ	Max	Unit
Frequency	-	60.5	-	GHz
Output Power	-	4	-	dBm

4. Antenna on package

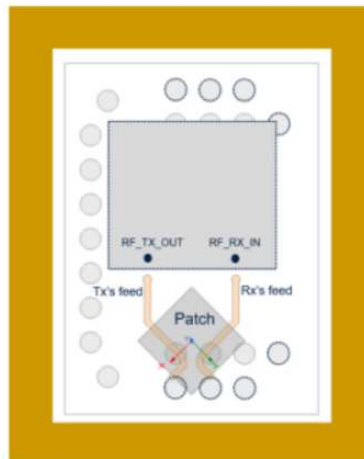


Figure 1. Antenna on package

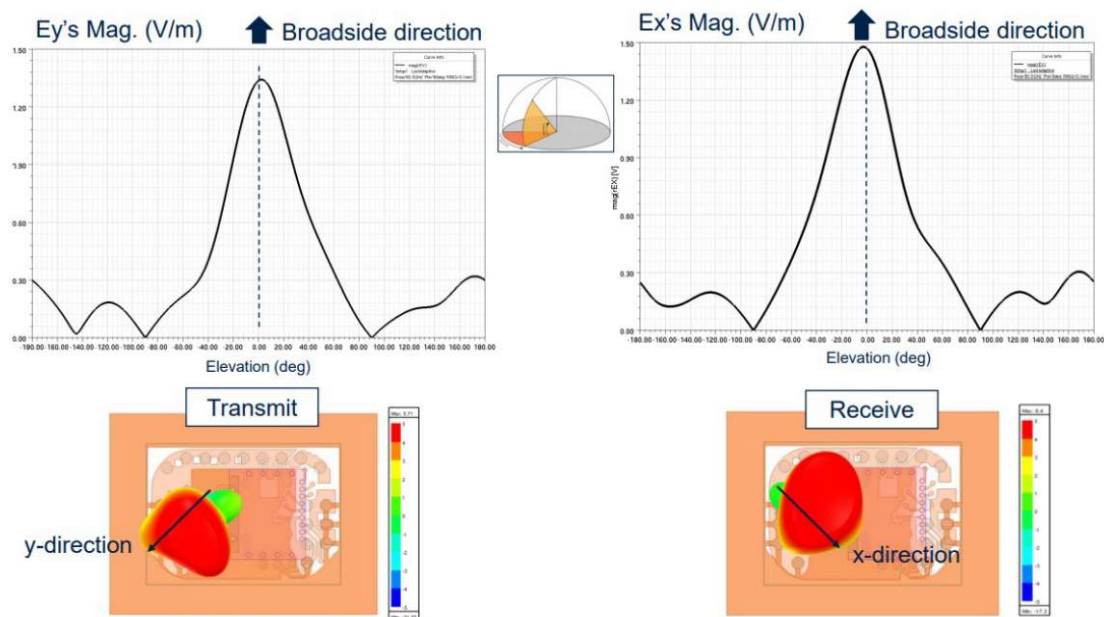


Figure 2. Broadside direction

5. Board Definition

5.1 TOP/Bottom side

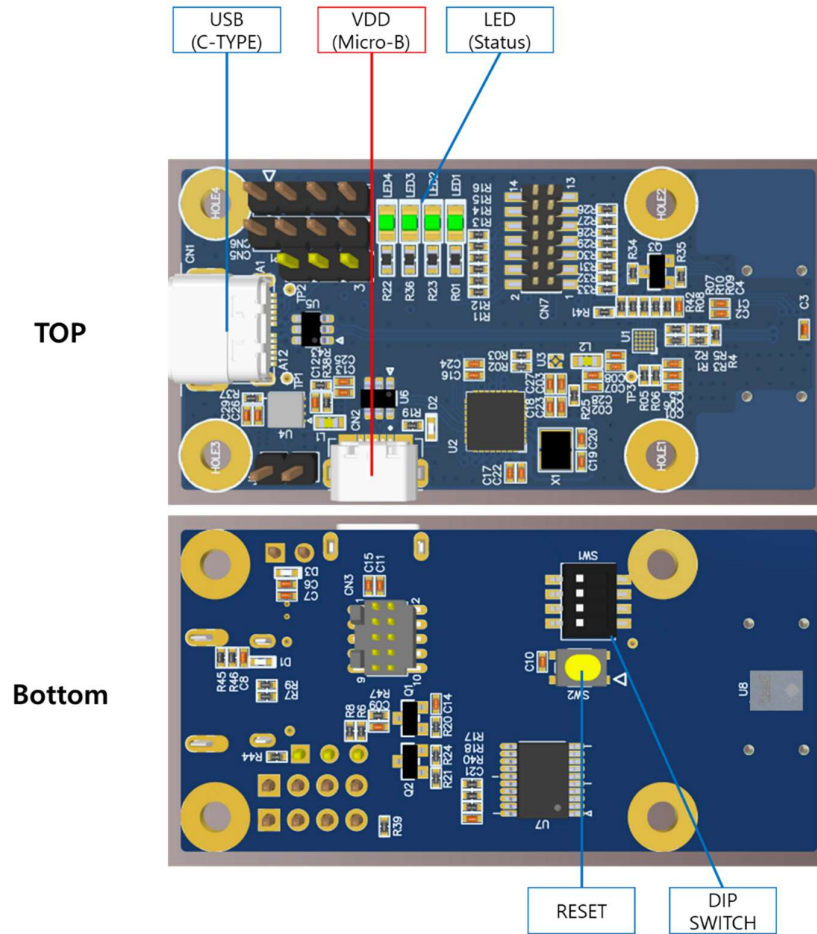


Figure 3. Board Top/Bottom

NO.	Name	Type	Description
1	USB	C-type	USB Host/Device
2	VDD	Micro-B	Power supply 5V
3	VDD	2Pin	Power supply 5V to 12V
4	LED	-	Status LED
5	RESET	-	RESET Module
6	DIP S/W	-	Select Mode

6. Setting

6.1 USB Connection

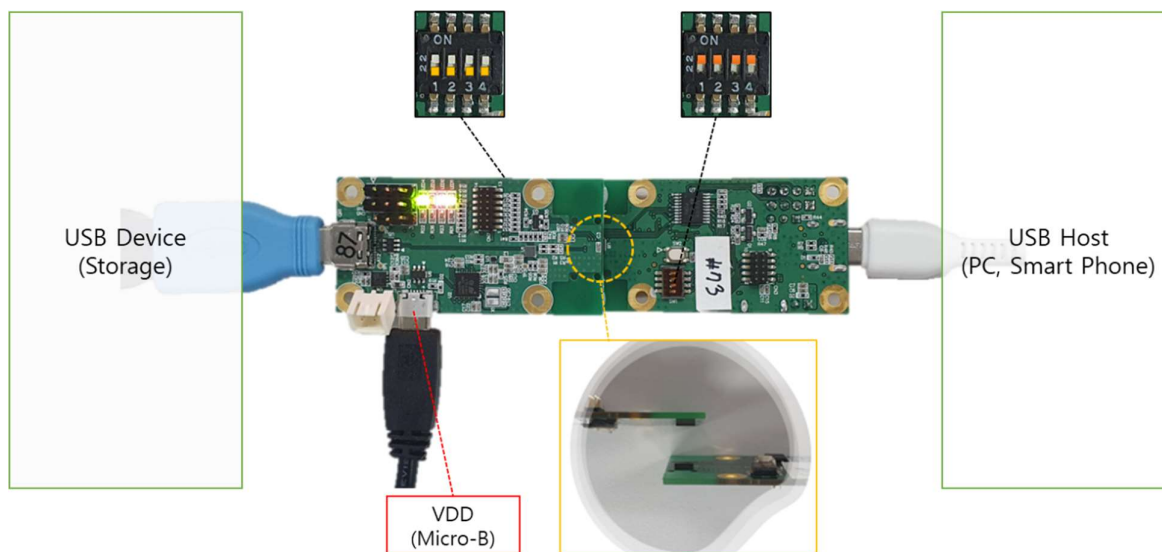
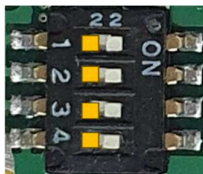
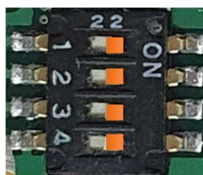


Figure 4. Setting for Wireless Connection(USB)

6.2 Dip Switch Settings

1		USB Device (RF-Remote)
2		USB Host (RF-Local)

7. Dimension & Order Information

7.1 Dimension

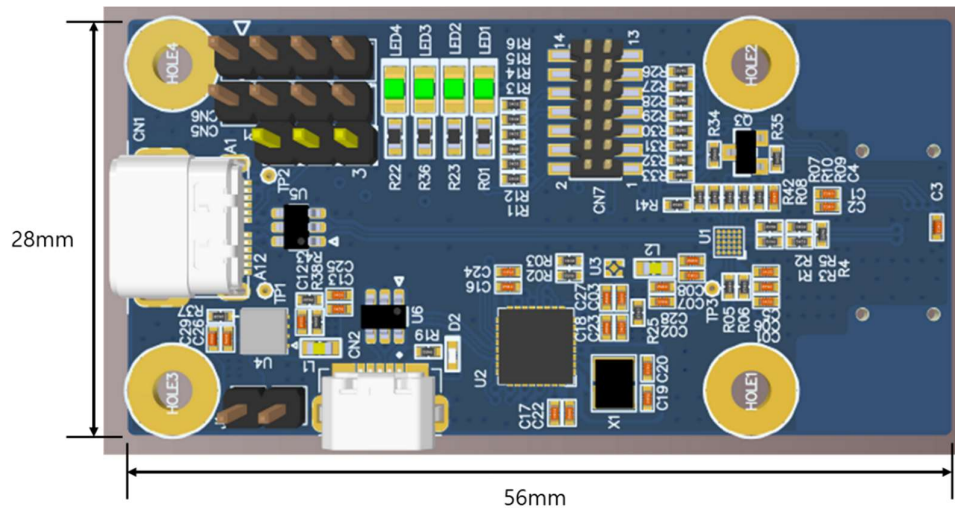


Figure 5. Board Dimension

7.2 Order Information

Part Number		Description
W-100A		Wireless Connection Module – 1ea

*not included : should be purchased separately

Shop : <https://www.rndsuper.com/>

Company : <https://www.craeca.com/>

Email : sales@craeca.com

***All the contents are subject to change without any notice.**