Antenna Specification

1. Antenna Describe

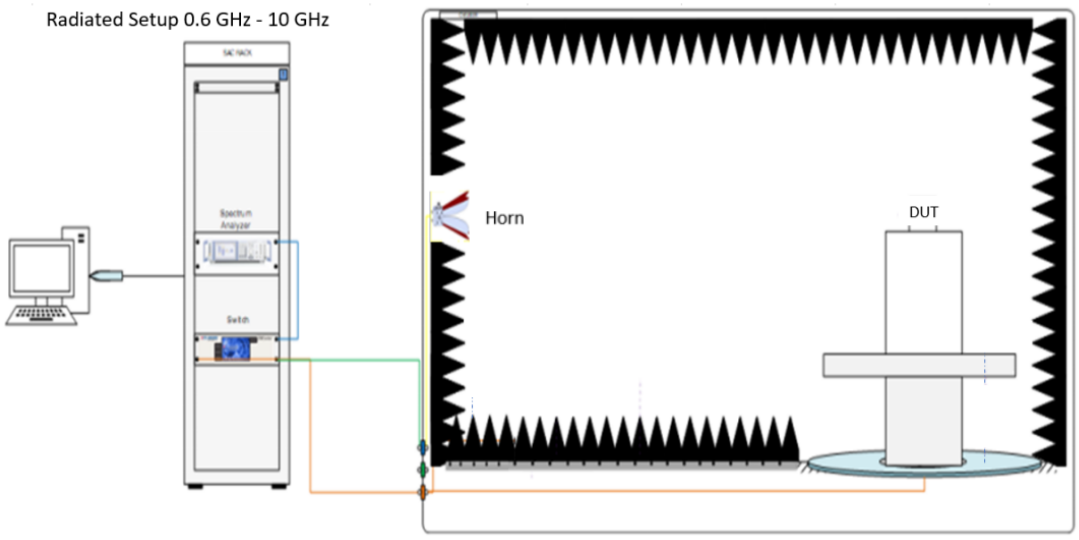
Antenna Manufacturer	Kunshan Innowave Communication Technology Co., Ltd.
Address	Building H, Jindudi Zhiyuan Garden, No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province
Antenna Model	F095F4306190001
Antenna Type	PIFA Antenna
Antenna Gain	2.4GHz: Antenna 1: 1.75dBi, Antenna 2: 1.81dBi 5GHz: Antenna 1: 2.53dBi, Antenna 2: 2.71dBi
Frequency Rang	2400-2500MHz, 5150-5850MHz
VSWR	≤2
Input Impedance	50Ω

2. External View Drawing

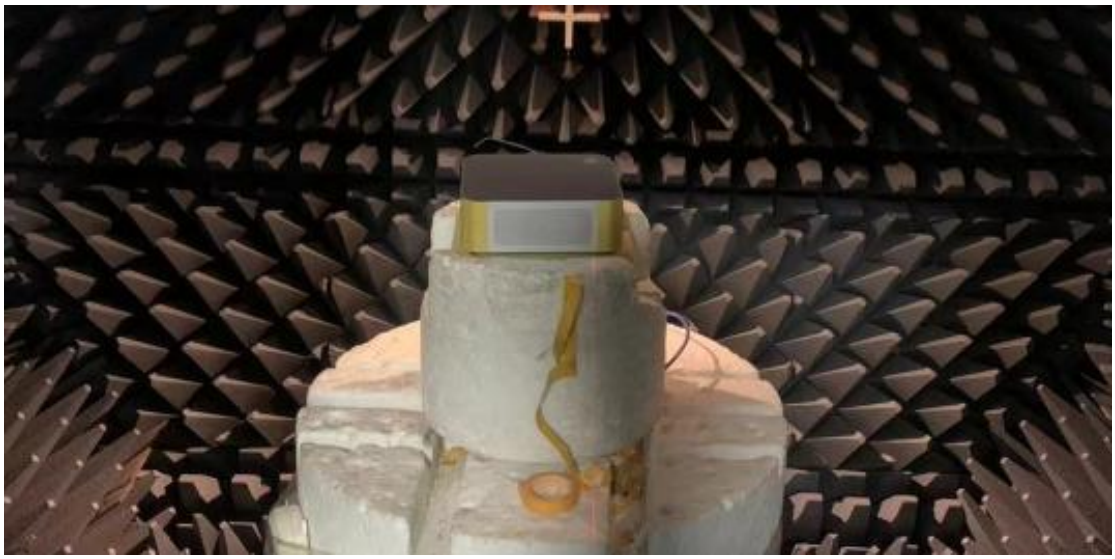
Please refer to the last page for details.

3. Measurement Result

3.1 Test Setup



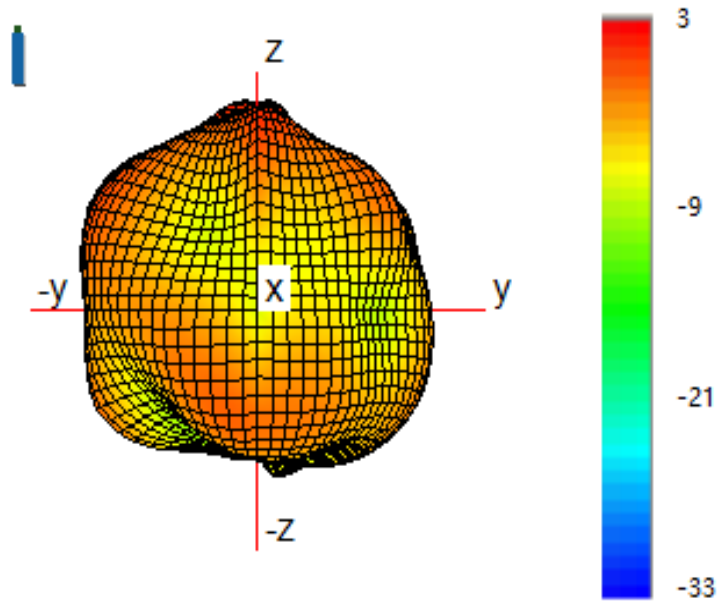
3.2 Setup Photo



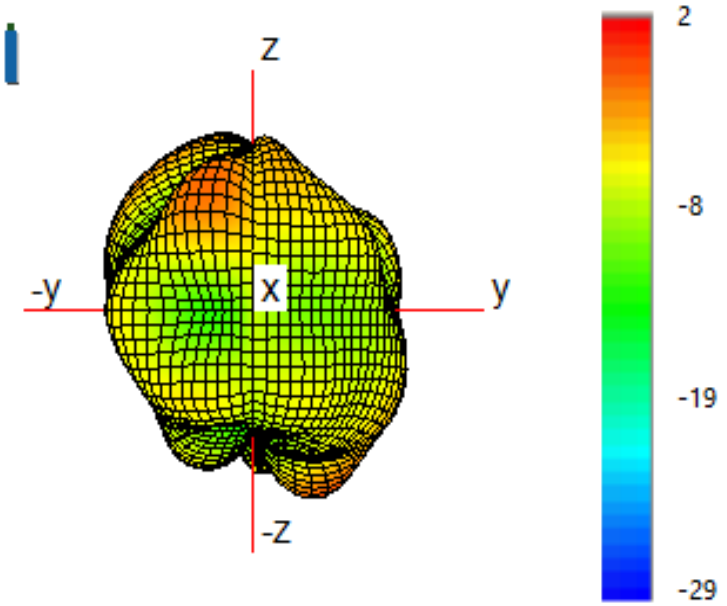
3.3 Antenna test data

Antenna 1

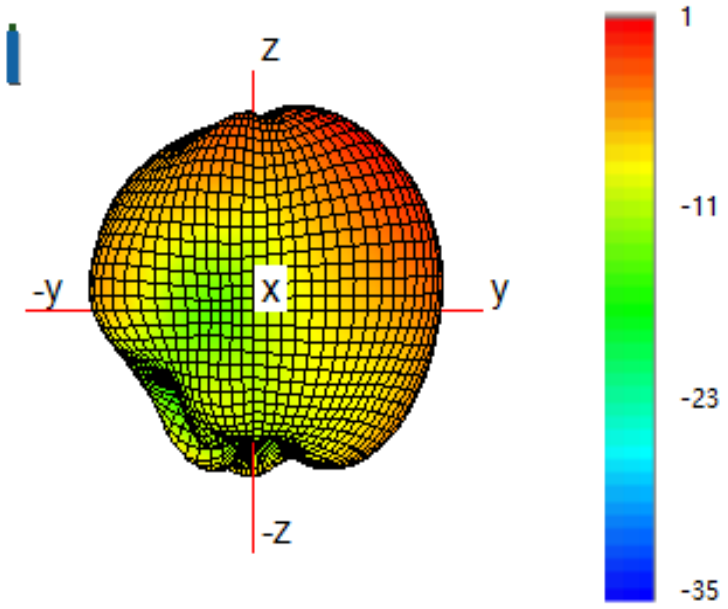
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.75



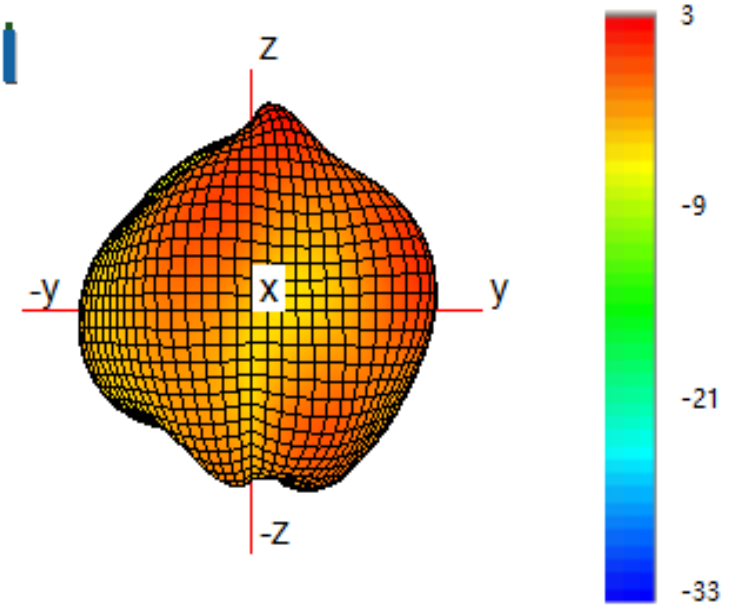
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.11



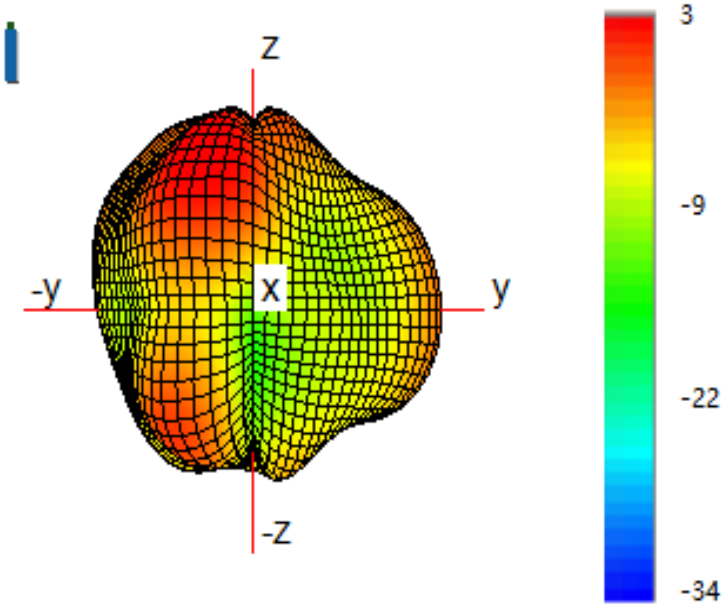
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.44



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.53

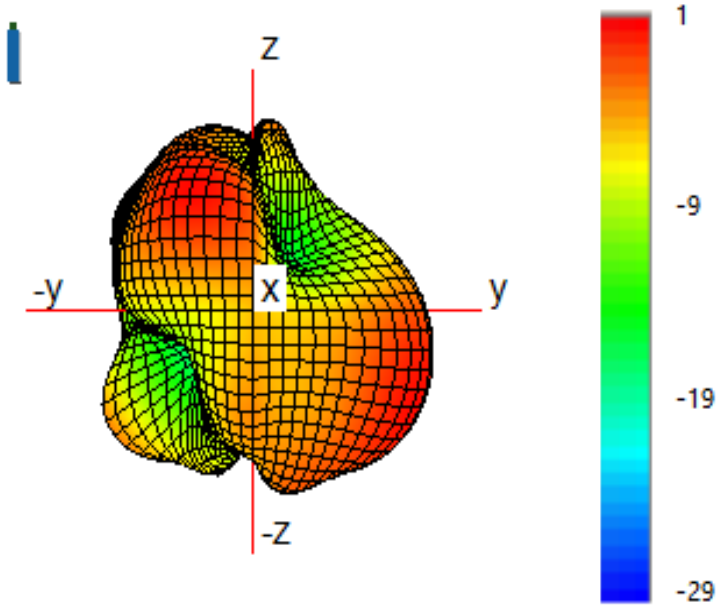


Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.49

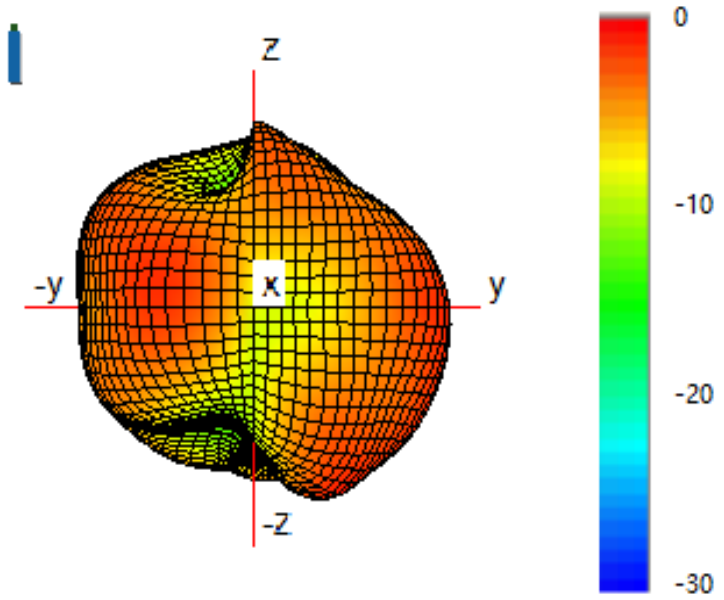


Antenna 2

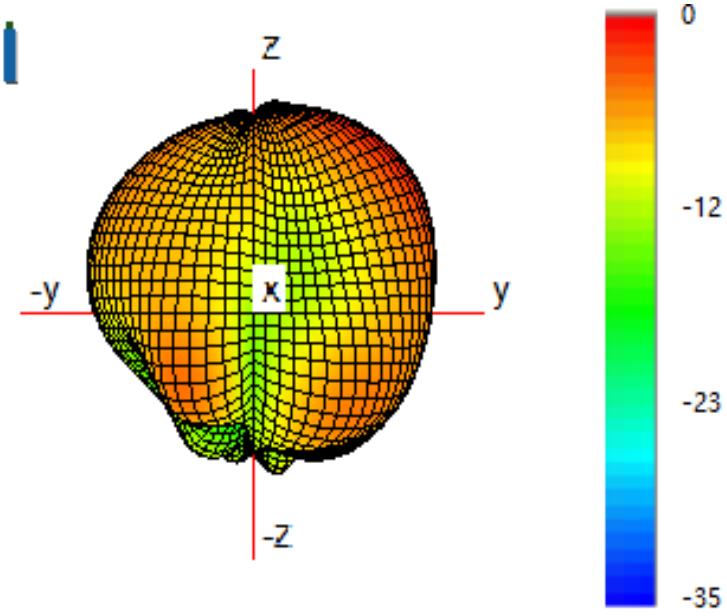
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.81



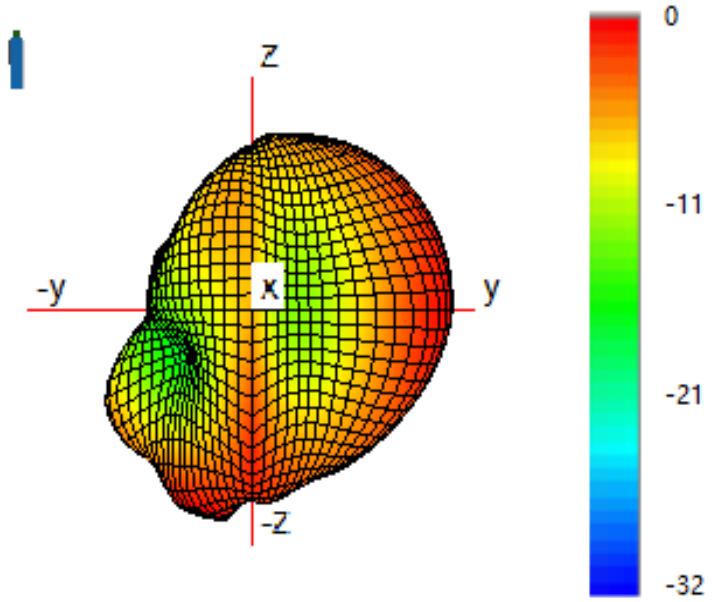
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.99



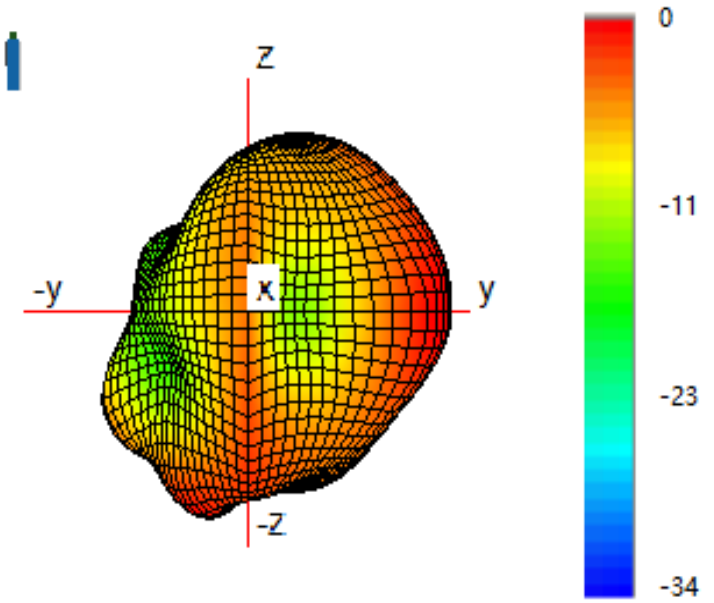
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.71



Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.67

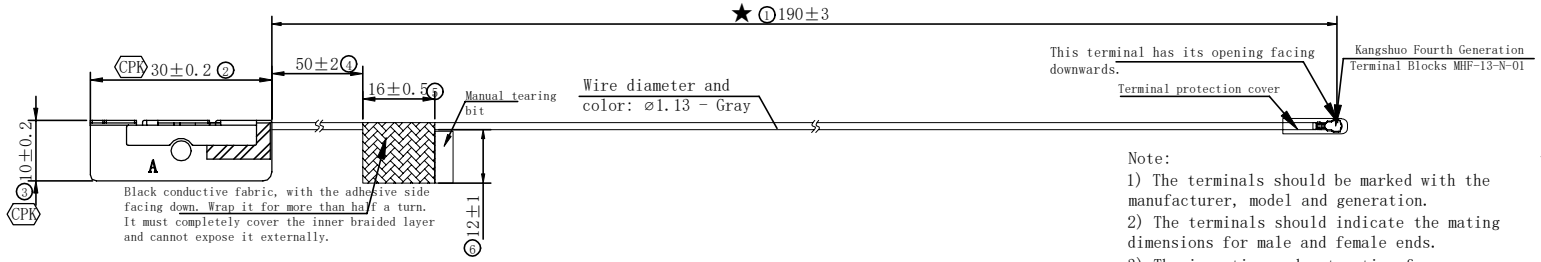


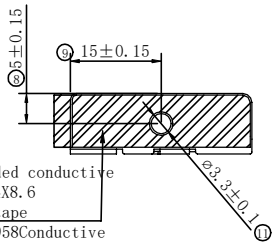
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.63



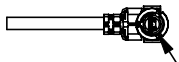
Confidential graphic files

Version	Marking	Change the content	Signature	Date
T01		Original draft drawing	Ma Yunfei	2024.04.22
T02		Update labels, double-sided conductive fabric, coaxial cable	Ma Yunfei	2024.05.27
T03		Update the steconductive adhesive conductive fabrical sheet and the double-sided conductive adhesive conductive fabric	Ma Yunfei	2024.07.02
V01		Update the length of the line	Ma Yunfei	2024.07.18



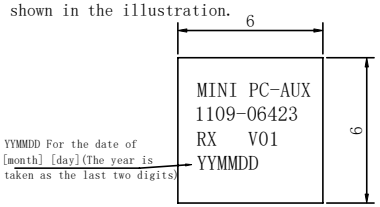


Note:
1) The terminals should be marked with the manufacturer, model and generation.
2) The terminals should indicate the mating dimensions for male and female ends.
3) The insertion and extraction force requirements are as follows:
Insertion force: Initial 35N (maximum);
Extraction force: Initial 25N, and after 30 insertions and extractions, it should be ≥ 5N.



Φ1.45±0.05
The matching dimensions of the male and female ends

The label format is as shown in the illustration.



The impedance between the double-sided conductive adhesive cloth and the steel sheet is less than 1Ω.

Serial Number	Name	Material Number	Description	Quantity
7	QR code		(PET Material) 6X6	1
6	Dust-proof sleeve		Transparency L=20mm	1
5	Conductive fabric	M095F4307510001	Conductive adhesive tape DY958 12x16 T=0.08MM black	1
4	Conductive fabric1	M095F4312590001	DY958Conductive adhesive, 8.6x29.4 T=0.13mm	1
3	EVA foam 75°	M095F4307590001	Black with adhesive backing 10.45x7x4mm	1
2	Steel sheet	M095F4304570001	SUS430 30x10x8 T=0.4	1
1	cable	S095F4302530001	Low-loss line Φ=1.13MM,Grey; Kangshuo Fourth Generation Terminal Blocks	1

Technical Requirements:
1. "★" represents the critical dimension, while the dimensions marked with, "CPK"need to be CPK-calculated. The CPK value of these dimensions must be greater than 1.33.
"( )" represents the actual assembly dimension, and "△" represents a design change.All marked dimensions must be included in the FAI report. The FAI report can only be signed for approval after being confirmed as OK by Baolongda.
2. The finished product needs to undergo full inspection for performance, without any welding defects such as false welding, short circuit, open circuit, etc.
3. The appearance must not have scratches, scratches, incomplete printing, etc.
4. If the tolerance is not specified in the drawing, please refer to the general tolerance table. Other unmarked dimensions and tolerances should refer to the 2Ddrawing and the general tolerance table.
5. It must meet relevant reliability tests such as salt spray test/ self-test, and be carried out in accordance with our company's internal RX-WI-QAC-014 reliability test standard. All materials must comply with our company's RX-WI-QAC-008 product environmental substanceprohibition management standard.Environmental requirements: comply with HF&ROHS2.0& Reach requirements.
6. Packaging should be in accordance with the packaging requirements provided by Ruixiang Engineering; thepackaging (or product) must be labeled with information such as product name, part number, version, production date, material recycling mark, etc.
7. All materials used must fully comply with the latest version of Baolongda's "Green Product Management Standard".
8. This drawing file is a commercial secret and is only for the designated individuals or organizations. Without permission, it must not be disclosed to any third party.

Tolerance Table		
>200	±0.20	ANGLES
100-200	±0.15	
50-100	±0.12	± 1°
10-50	±0.10	
0-10	±0.05	

Machine type	MF43(MINI PC)		Design	Ma Yunfei	Date 2024.04.22
Name	MF43-AUX-finished product		R F	Peng Liming	Date 2024.04.22
Material Number	F095F4306590001		Review and Approval	Li Shihui	Date 2024.04.22
Version	V01	Frame A4			
Proportion	FIT	Third-person perspective			
Unit	MM				

INNOWAVE
Kunshan Innowave Communication Technology Co., LTD.