

L12-9010

UHF RFID antenna v2.1



L12-9010 is a **12dBi UHF RFID antenna** with **linear polarization**. It is suitable for many applications: RFID logistics tracking, warehouse management, door control system...

Key features

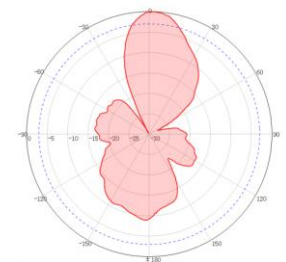
- UHF RFID
- Gain 12dBi
- Linear polarization
- SMA-Female connector

Applications

- RFID logistics tracking
- Warehouse management
- Door control system
- File cabinet management

Functional specifications

Type	UHF
Frequency	EU: 865-869MHz US: 902-928MHz
Gain	12dBi
Beam width	Hor: 30° Ver: 120°
Polarization	Linear
VSWR	≤ 1.5
F/B Ratio	≥ 25
Input Impedance	50Ω
Maximum power	50W
Lightning protection	DC Ground
Antenna connector	SMA-Female



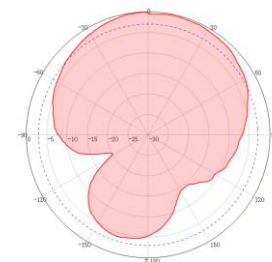
H-Plane

Physical specifications

Dimensions	900*100*28mm
Net weight	1.1kg
Packing size	92*10.5*3.2cm
Gross weight	1.8kg
Radome material	PVC
Radome colour	White

Environment and industry compliance

Protection grade	IP54
Use	Indoor
Operating Temperature	-40°C ~ +70°C



E-Plane

V2.1

Non-contractual data sheet

AXEM Technology

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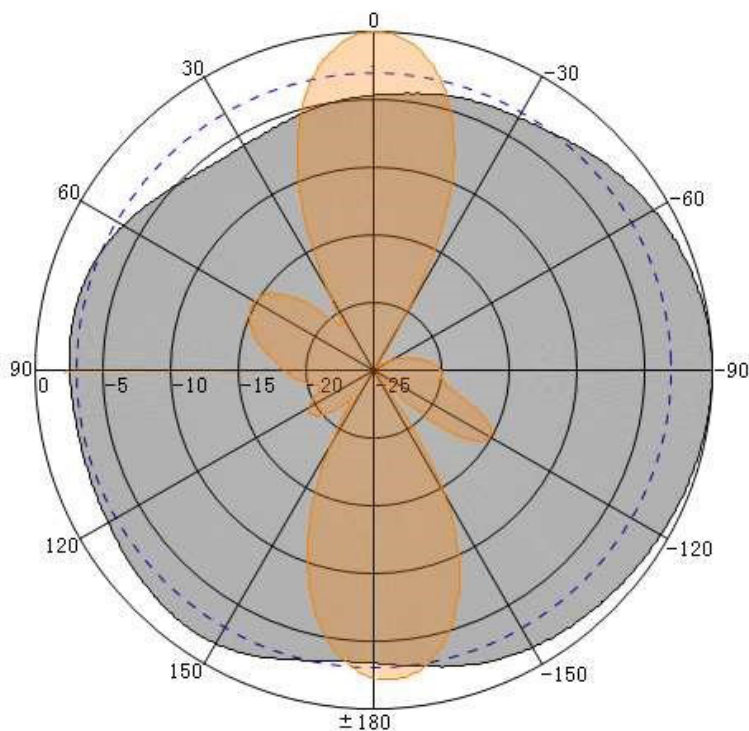
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Radiation patterns

1). 8.10dBi @865MHz



Freq:865MHz
Date:2019/11/14
Polar_Face:E
Max:-8.36dB
HPBW(3dB):134.68°
FBR:2.41dB
ComGain:1.17
Direction :2.22dBi

Freq:865MHz
Date:2019/11/14
Polar_Face:H
Max:-9.61dB
HPBW(3dB):24.95°
FBR:2.11dB
ComGain:-0.08
Direction :13.98dBi

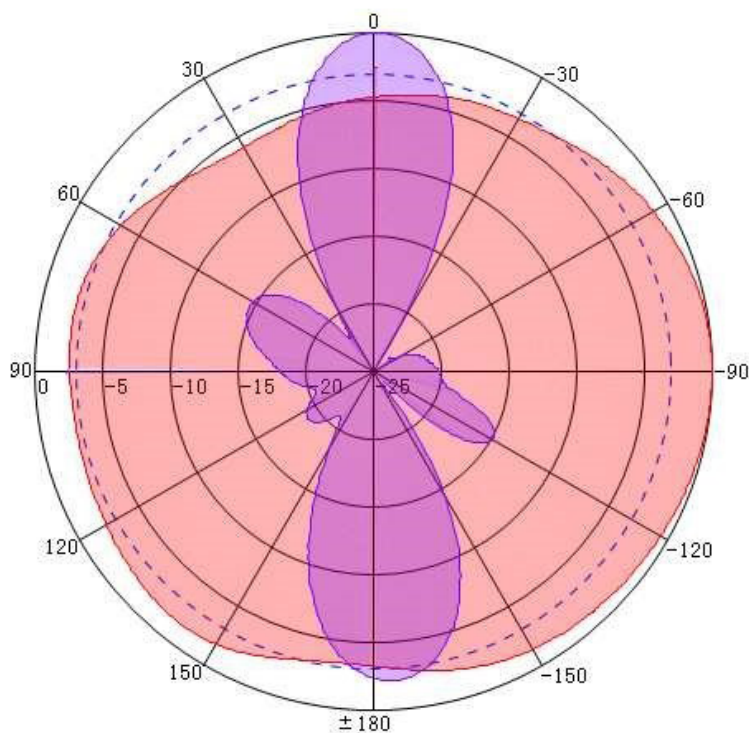
Gain:8.10dBi

Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
865	2019/11/14	E	-8.36	134.68	2.41	1.17	2.22	
865	2019/11/14	H	-9.61	24.95	2.11	-0.08	13.98	8.10

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2). 8.08dBi @867MHz



Freq:867MHz
Date:2019/11/14
Polar_Face:E
Max:-8.57dB
HPBW(3dB):137.02°
FBR:2.28dB
ComGain:1.08
Direction :2.18dBi

Freq:867MHz
Date:2019/11/14
Polar_Face:H
Max:-9.82dB
HPBW(3dB):24.64°
FBR:2.12dB
ComGain:-0.17
Direction :13.97dBi

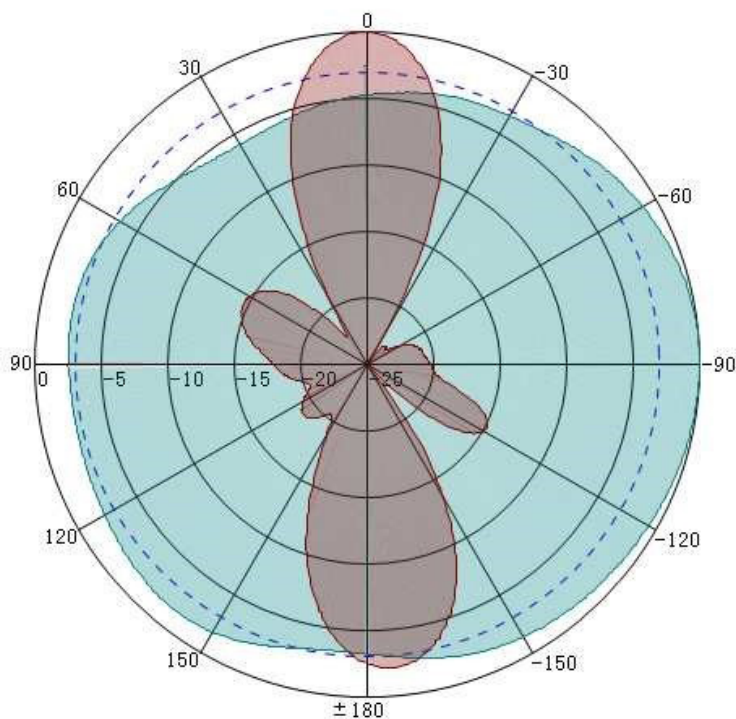
Gain:8.08dBi

Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
867	2019/11/14	E	-8.57	137.02	2.28	1.08	2.18	
867	2019/11/14	H	-9.82	24.64	2.12	-0.17	13.97	8.08

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2). 8.07dBi @868MHz



Freq:868MHz
Date:2019/11/14
Polar_Face:E
Max:-8.68dB
HPBW(3dB):137.87°
FBR:2.26dB
ComGain:1.02
Direction:2.17dBi

Freq:868MHz
Date:2019/11/14
Polar_Face:H
Max:-9.92dB
HPBW(3dB):24.42°
FBR:2.14dB
ComGain:-0.22
Direction:13.98dBi

Gain:8.07dBi

Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
868	2019/11/14	E	-8.68	137.87	2.26	1.02	2.17	
868	2019/11/14	H	-9.92	24.42	2.14	-0.22	13.98	8.07