

## LoRa® Indoor Outdoor Antenna 9dBi

860MHz - 870MHz 9dBi Omni-Directional Outdoor Antenna



### Hauptmerkmale

- 860MHz - 870MHz Frequency Band
- IEEE 802.22 WRAN
- Point to Point Bridge
- Multipoint Application
- Public Wireless Hotspot
- Wireless Video Systems

### Spezifikation

#### Electrical Specifications

Frequency Range	860MHz - 870MHz
V.S.W.R (MAX)	868MHz: <1.5 :1 860 and 870MHz: <2.0:1
Antenna Type	Omni
Radiation	Directional
Gain	9 dBi
Polarization	Vertical
Maximum Power	100 Watts
Vertical Beam-width	17 Deg
Horizontal Beam-width	360 Deg
Impedance	50 Ohm
Antenna Design	Dipole Array
Internal Material	Copper
Connector	N-Female

#### Mechanical Specifications

Length x Width (MAX)	1475mm+/-5mm
Diameter (MAX)	70 mm
Antenna Weight (G.W)	1000g
Accessories (G.W)	70 g
Application	Indoor / Outdoor
Radome Material	White Fiberglass
Paets Material	Aluminum
Mount Style	Pole Mount / Wall Mount
Mounting	Stainless Steel and Aluminum
Wind Survival	Greater then 150MPH
Storage Temperature	-40 to +80
Operating Temperature	-40 to +60
Operating Humidity	10%~80% non-condensing
Storage Humidity	5%~80% non-condensing
Safety, Emission and other	RoHS

## RF Chamber Test Report

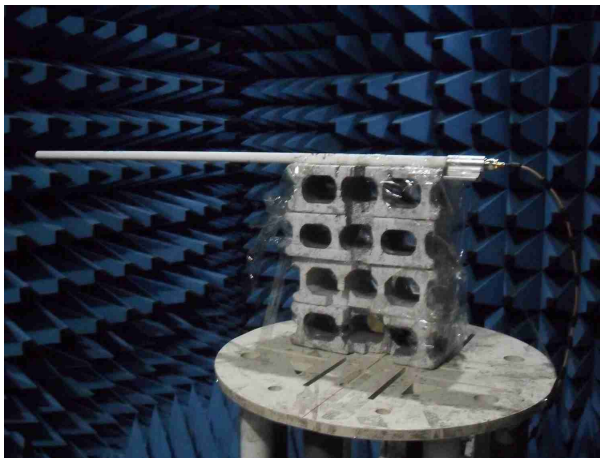
### Accessories



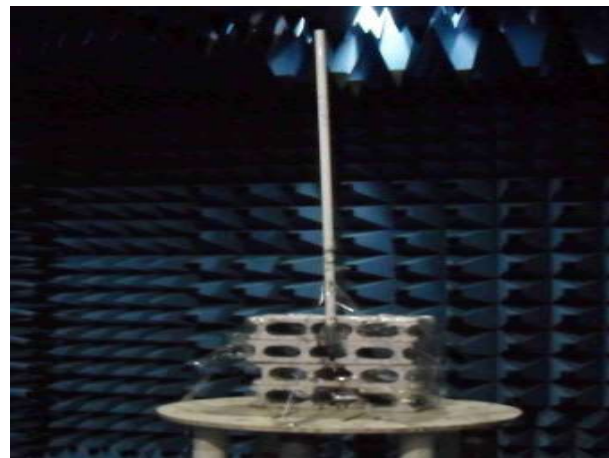
- Stainless steel "U type" screw X2**
- M6 Stainless steel screw mat slice X 4**
- M6 Stainless steel screw X 4**
- Water proof tape X 1**

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Chamber	14M(L) X 7M(D) X 7M(H)
Test Frequency	860MHz - 870MHz
Than Antenna	FT-RF HA-07M18G-NF

### Vertical Pattern Photos

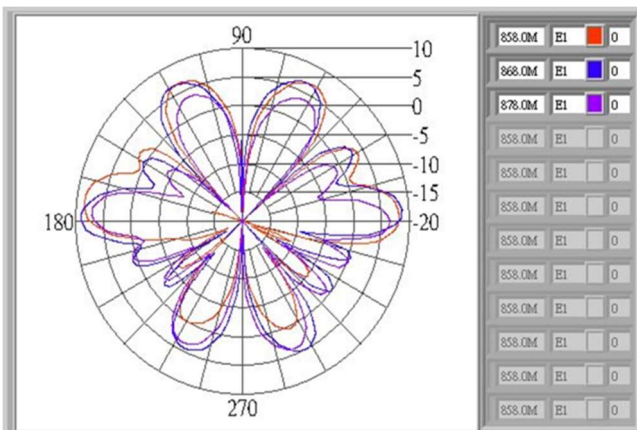


### Horizontal Pattern Photos



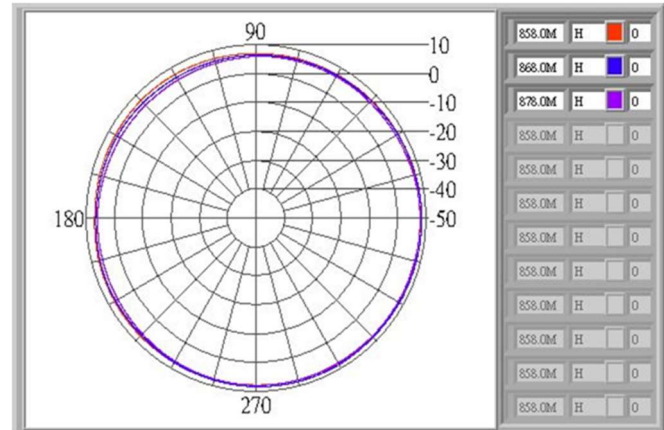
### Vertical Pattern

E-plane co-pol ----- -3dB beam-width= 17 Deg



### Horizontal Pattern

H-plane co-pol ----- -3dB beam-width= 360 Deg

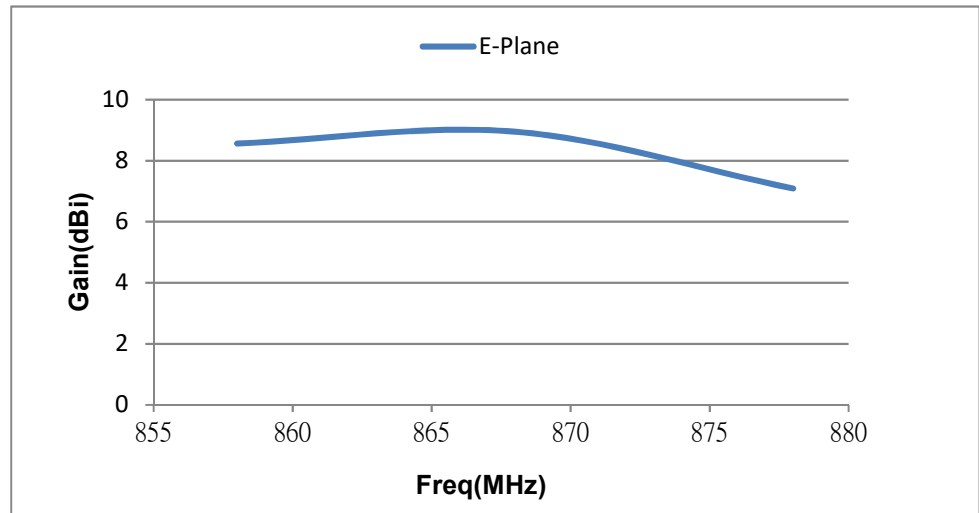


## Antenna Gain Curve

### E-Plane

MHz	dBi
858	8.56
868	9.02
878	8.59

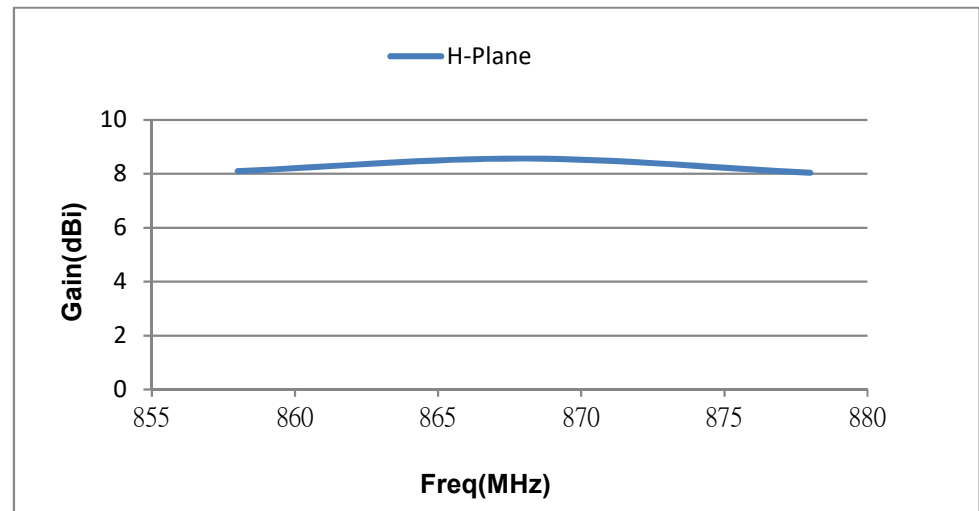
Average 8.72



### H-Plane

MHz	dBi
858	8.3
868	8.85
878	8.56

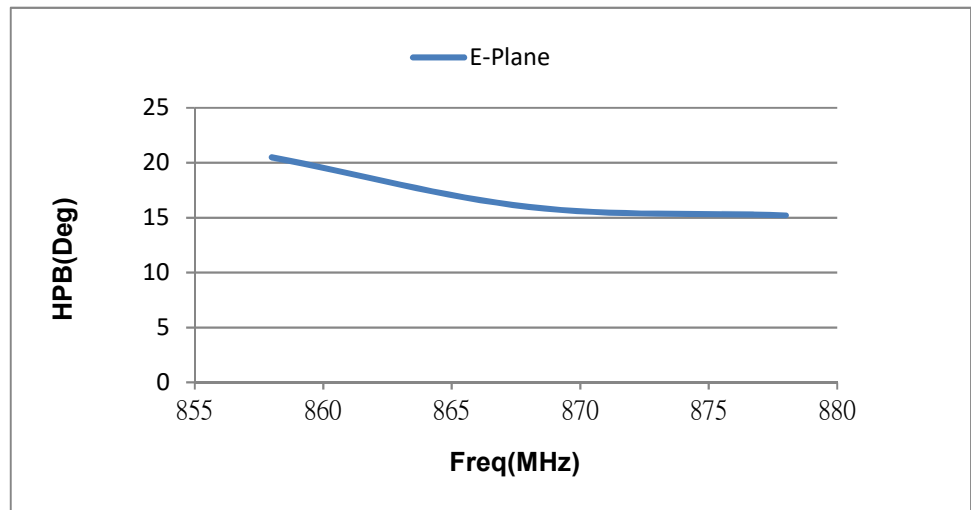
Average 8.57



## Antenna -3dB Beam-width Curve

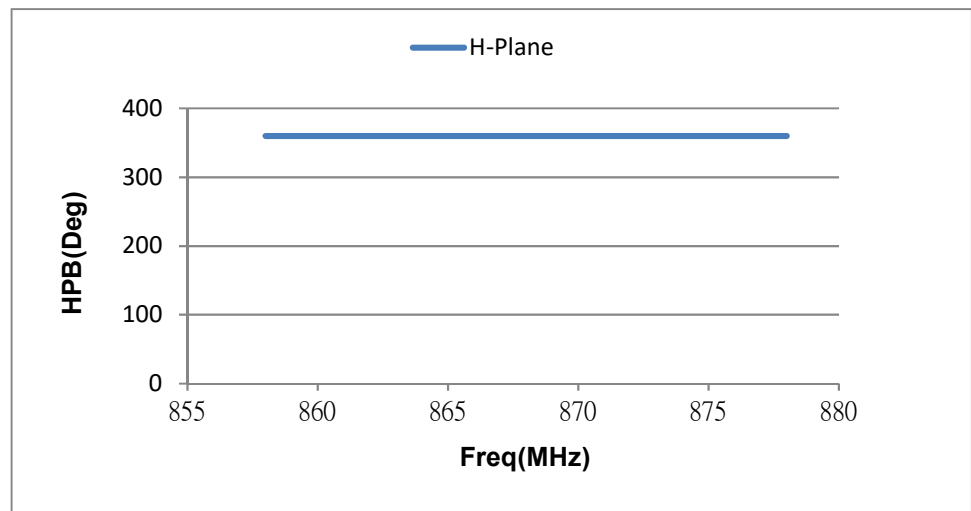
### E-Plane

MHz	Deg
858	19.58
868	14.54
878	14.13
Average	16.08



### H-Plane

MHz	Deg
858	360
868	360
878	360
Average	360

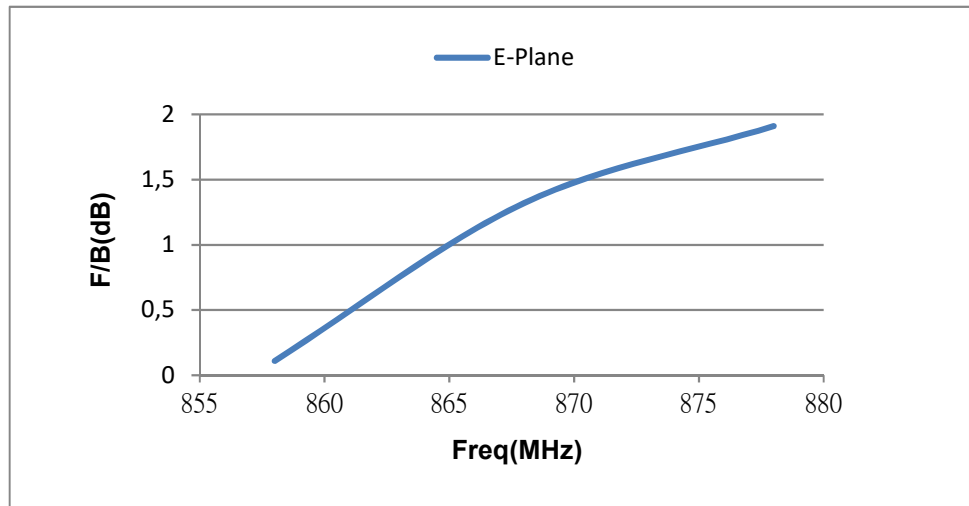


## Antenna FBR Curve

### E-Plane

MHz	dB
858	0.11
868	1.25
878	1.51

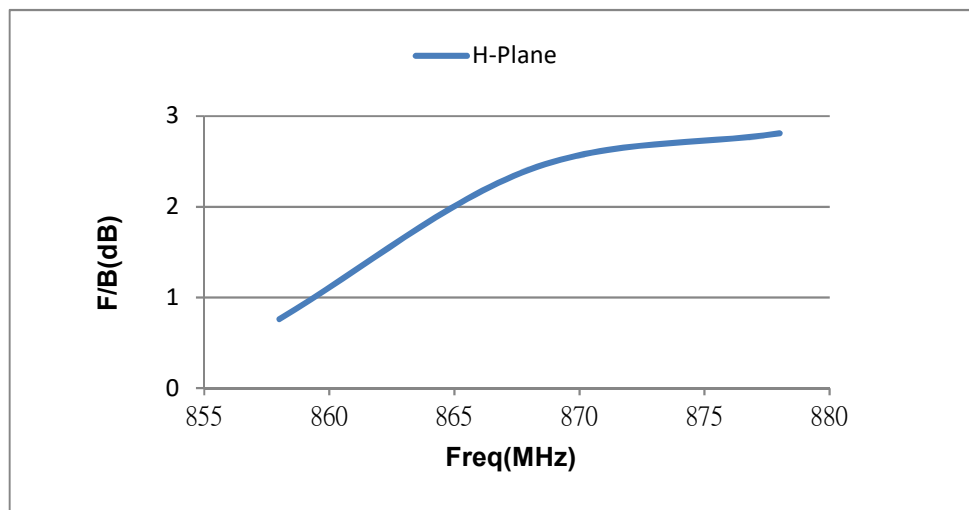
Average 0.95



### H-Plane

MHz	dB
858	0.60
868	2.15
878	2.34

Average 1.69



## Antenna Size Chat

