

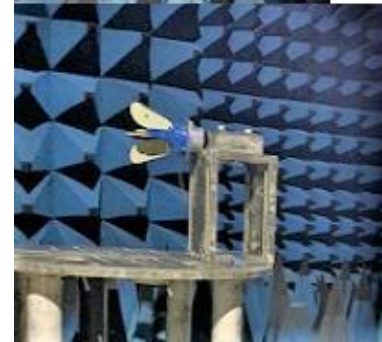
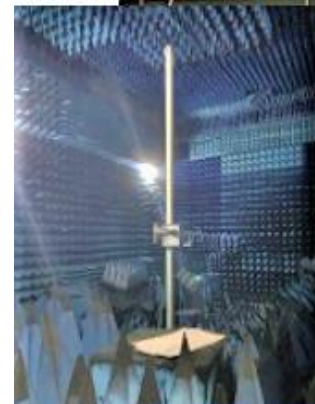
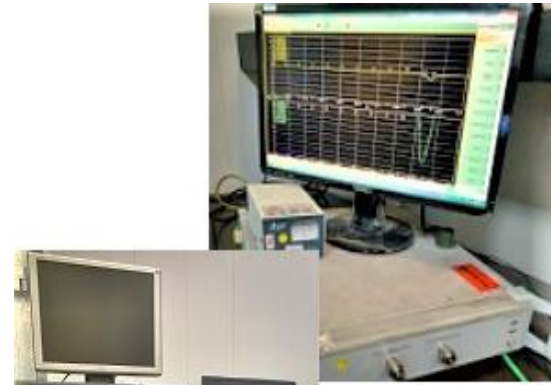
860MHz - 870MHz 3dBi Omni-Directional Outdoor Antenna



Applications:		Features:	
<ul style="list-style-type: none"> <li>● 860MHz - 870MHz Frequency Band</li> <li>● IEEE 802.22 WRAN</li> <li>● Point to Point Bridge</li> <li>● Multipoint Application</li> <li>● Bluetooth</li> <li>● Public Wireless Hotspot</li> <li>● Wireless Video Systems</li> </ul>		<ul style="list-style-type: none"> <li>● Superior performance</li> <li>● Lightweight</li> <li>● Good appearance design</li> <li>● DC Short lightning protection</li> <li>● Support is up and down or so to adjust</li> <li>● Behind and support is made of aluminum</li> <li>● Outdoor antenna for public hotspots</li> <li>● Includes tilt and swivel mast mounting brackets</li> <li>● RoHS Compliant</li> </ul>	
Model:	OA-868M03-NF	-3db Beam-width :	Horz.360 deg Vert.68 deg
LxWxH:	320x70x50mm	N.W.:	330g
Connector:	N-Female	Frequency:	860MHz-870MHz
Styling:	1/4 Dipole	Polarization:	Vertical
Gain:	3dBi	Max Power (C.W) :	200W

**Electrical Specifications**

Frequency Range	860MHz to 870MHz
V.S.W.R (MAX)	868MHz: 1.5 :1 860MHz and 870MHz: <2.0
Antenna Type	Collinear
Radiation	Omni Directional
Gain (MAX)	3 dBi
Polarization	Vertical
Maximum Power	100 Watts
Vertical Beam-width	75 Deg
Horizontal Beam-width	360 Deg
Impedance	50 Ohm
Antenna Design	1/4 Wavelength Dipole
Internal Material	Copper
Connector	N-Female



1MHz to 70GHz Antenna R&D. Manufacturing. OEM. ODM  
Meet Various International Standards  
High-Quality Made in Taiwan Antenna Products

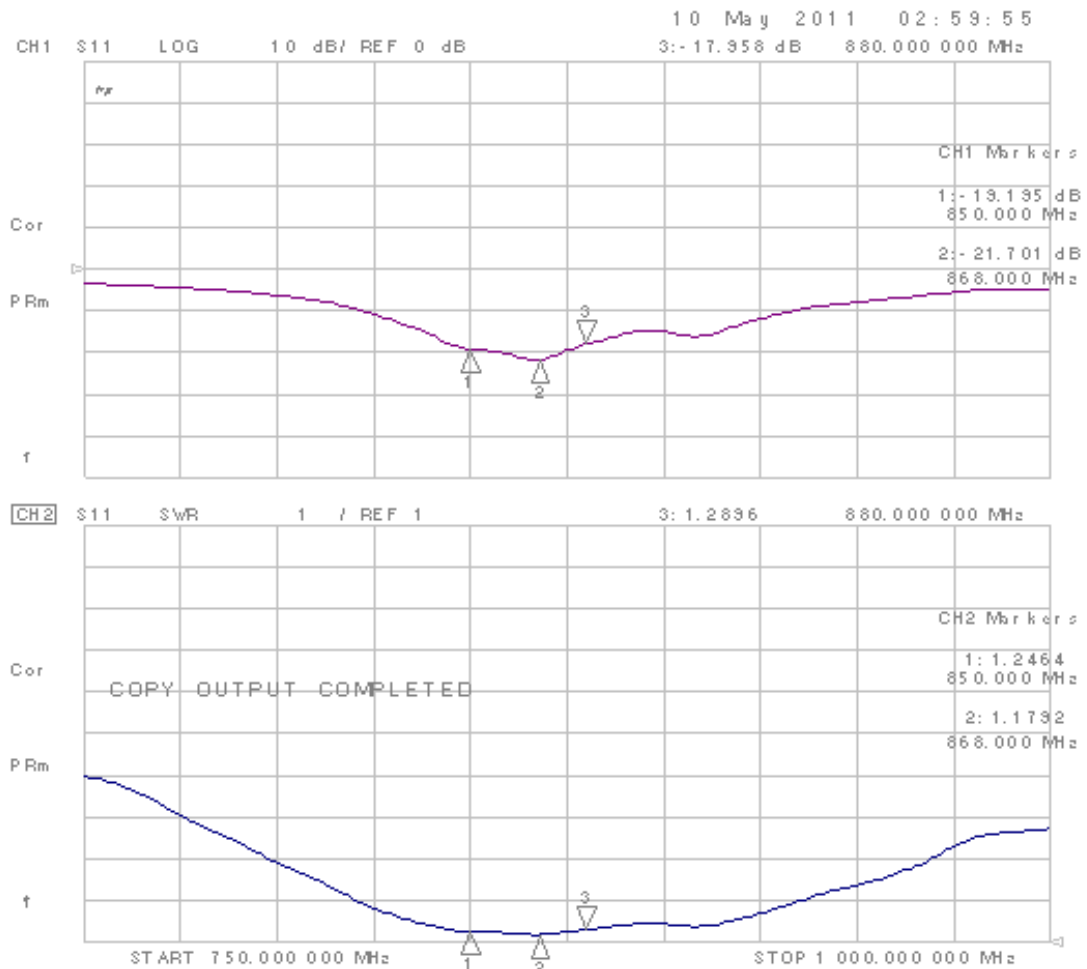
**Mechanical Specifications**

Length (MAX)	320+/-5mm
Diameter (MAX)	70 x 50mm
Antenna Weight (G.W)	330 g
Accessories (G.W)	70 g
Application	Indoor / Outdoor
Radome Material	White Fiberglass
Parts Material	Aluminum
Mount Style	Pole Mount / Wall Mount
Mounting	Stainless Steel
Wind Survival	Greater than 150MPH
Storage Temperature	-20 to +80
Operating Temperature	-20 to +60

## Network Analyzer Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Test Equipment Cable	Agilent 60cm SMA male to SMA male
RF connector Adapter	Agilent SMA-Female to N-Male DC~18GHz
Correction	85052D-DC-26.5GHz
Test Model	OA-868M03-NF
Test Port	S11

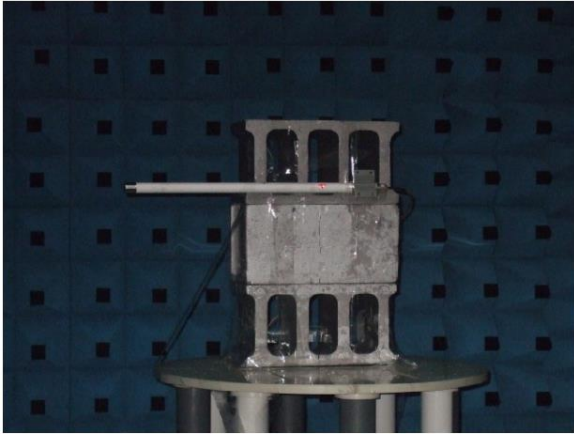
### Return Loss & V.S.W.R



RF Chamber Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Chamber	7M(D) X 7M(H) X14M(L)
Test Frequency	860MHz - 870MHz
Test Antenna	FT-RF HA-07M18G-NF

Vertical Pattern Photo

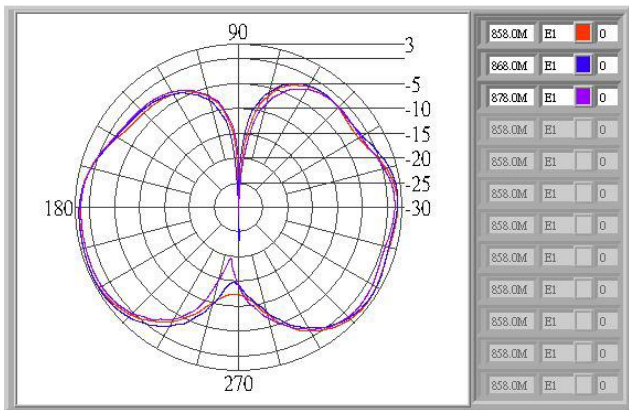


Horizontal Pattern Photo



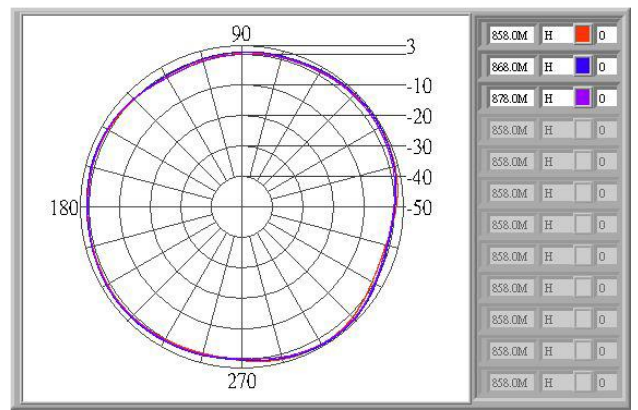
Vertical Pattern

E-plane co-pol-----3dB beam-width=75 Deg



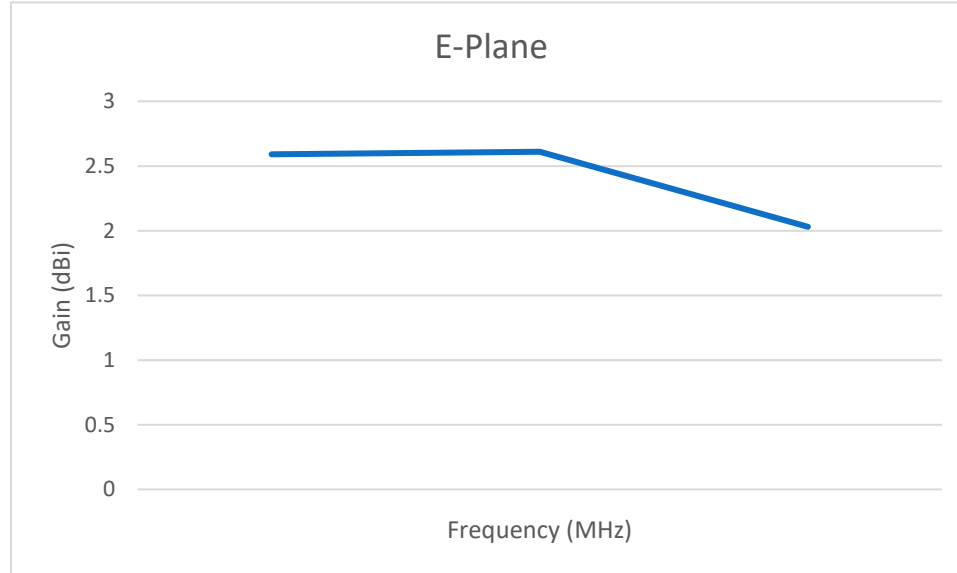
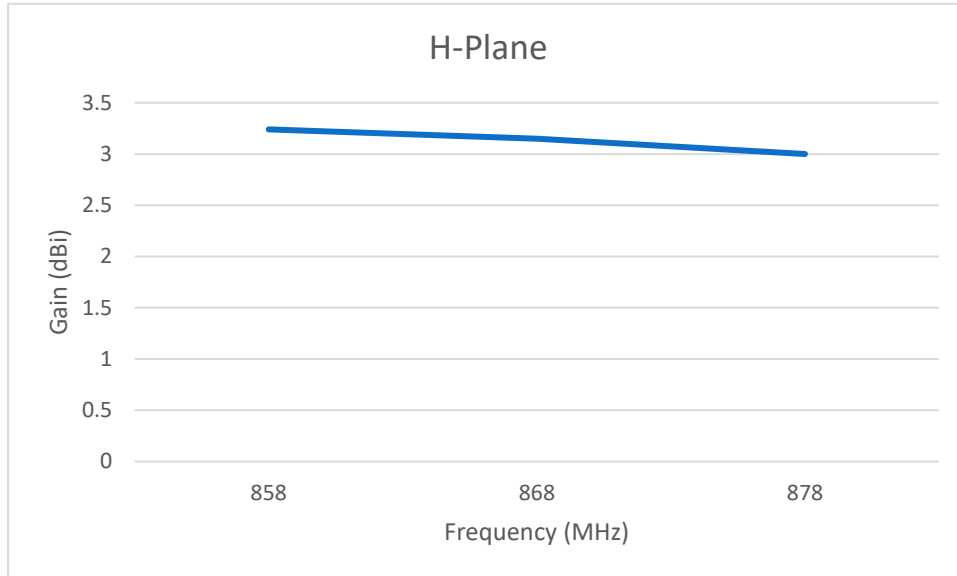
Horizontal Pattern

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



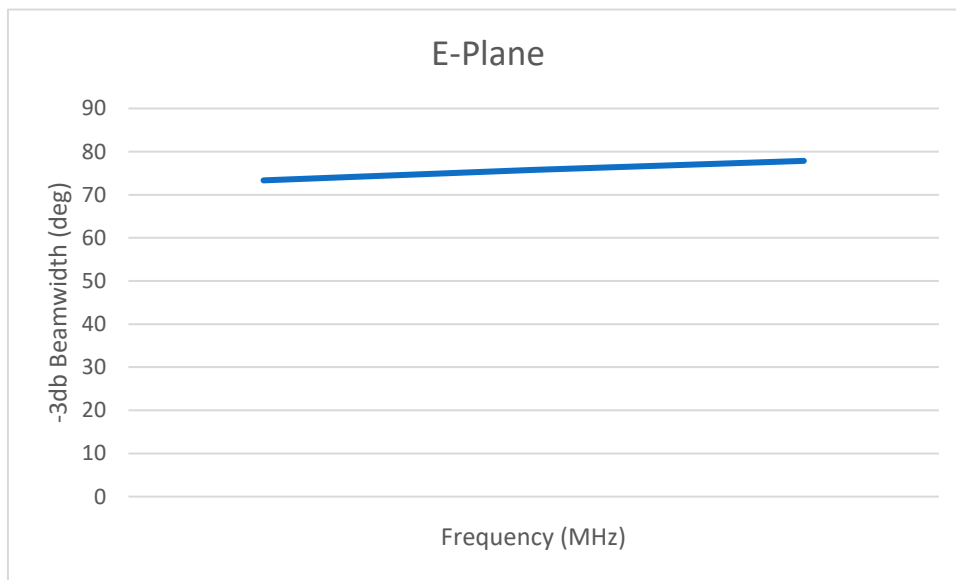
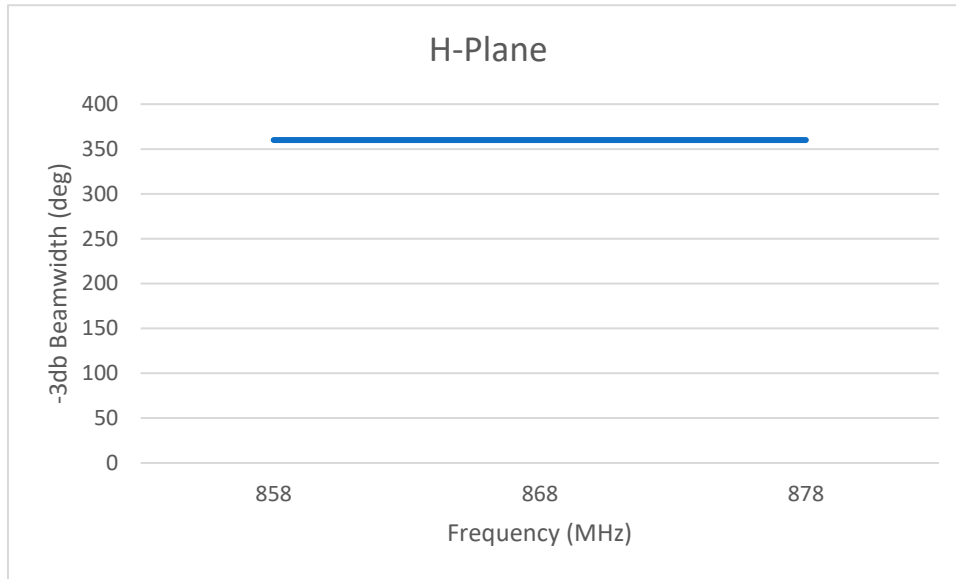
## Antenna Gain

Frequency (MHz)	H-plane (dBi)	E-plane (dBi)
858	3.24	2.59
868	3.15	2.61
878	3	2.03



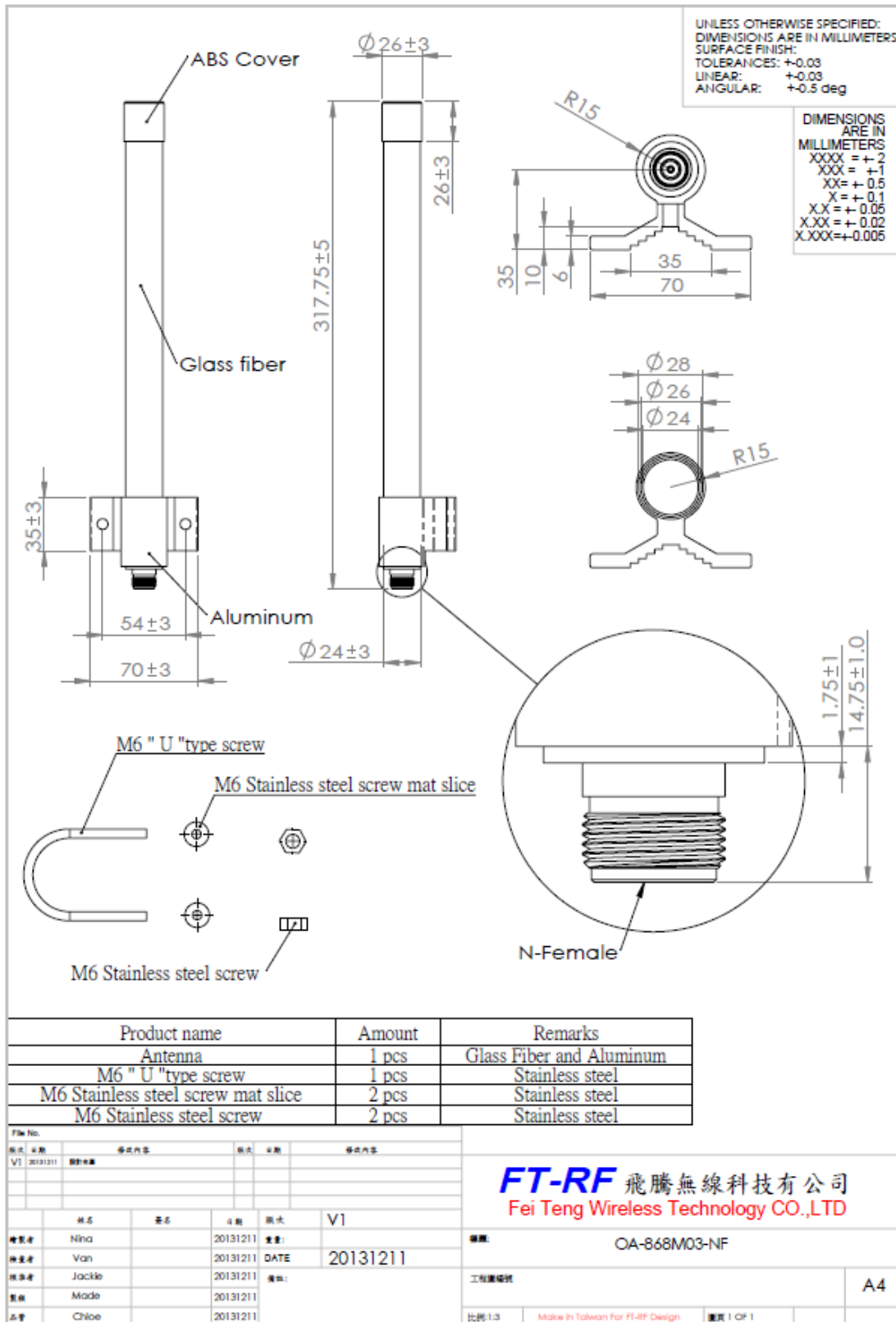
## Antenna -3db Beamwidth Curve

Frequency (MHz)	H-plane (deg)	E-plane (deg)
858	360	73.33
868	360	75.75
878	360	77.85
AVG	360	75.64

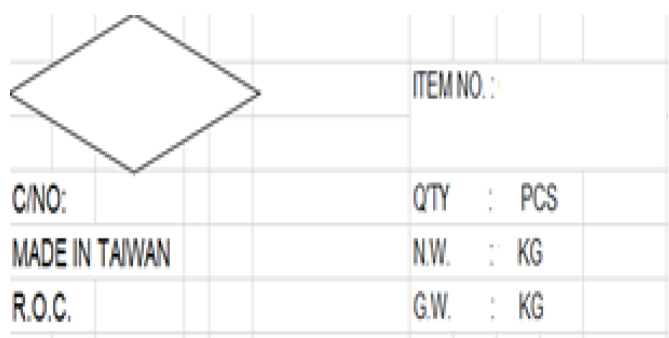





# Antenna Dimensions



## Packing List & Label List

<b>FT-RF's P/N: 868M03-NF</b>	<b>Customer's P/N:</b> Please inform us when you make an order
	1 Carton quantity      10 pcs
	1 set of accessories
	1x U bolt, Washer, Nuts
	Waterproof tape
	Paper tube
	Carton dimension      485*398*177mm
N. W      3.3      KG	
G. W      5.5      KG	
Carton Label (100x150mm)	Antenna Label (10x30mm)
	<p style="text-align: center;">OA-868M03-NF</p> 
Custom carton Label	Custom Antenna Label
** Following the customer requirements. Please inform us when you make an order	** Following the customer requirements. Please inform us when you make an order



## RoHs and WEEE Status (RoHs and WEEE Compliance)

Certificate of Compliance

Date:

To Whom It May Concern

FT-RF hereby certifies that product:

Model	Product
OA-868M03-NF	860MHz - 870MHz 3dBi Omni-Directional Outdoor Antenna

Is in conformance with the requirements of the European RoHS Directive 2011/65/EU and the European WEEE Directive 2012/19/EU, all materials referenced therein are in concentrations below the maximum allowable levels specified. Products manufactured by FT-RF bear the CE marking and have FCC certificate. FT-RF has been assessed and found to be in accordance with the requirements of ISO 14001:2015 and ISO 9001:2015 standards, scope of Design and Manufacture of Antenna.

Our statements in this letter regarding RoHS and WEEE compliance do not extend to, or apply to any product subjected to unintended contamination, misuse, neglect, accident, improper installation, or to use in violation of instructions furnished by FT-RF.

Sincerely,

FT-RF (Fei Teng Wireless Technology CO., LTD)

The information contained in this letter is being provided for informational purposes only and to clarify certain information concerning FT-RF products. Nothing provided in this letter is:

- (1) a representation, warranty, or agreement to indemnification by FT-RF.
- (2) a statement which may form the basis of reliance by FT-RF,
- (3) a modification of any of the terms and conditions of sale agreed to in writing between FT-RF and its customers with respect to any FT-RF products, whether previously sold or to be sold in the future.