

ALLISCOM

FC512

Omni-directional Antenna

Data Sheet



Model No. FC512-SWJJWXLXAS

Features

- 6 Directional Antenna Elements
- Dual Cross Polarization (Linear)
- High performance for 5.1~5.8GHz
- Peak Gain 12dBi
- IP67 (Dustproof and Waterproof)

Resistant to harsh outdoor environment
RoHS Compliant

Description The FC512 is an omni-directional, IP67 waterproof antenna for use in transportation and remote monitoring applications. This antenna delivers advanced MIMO antenna technology for WiFi in a compact package. The functions of WiFi include 802.11a/n and emerging 802.11ac. The antenna has its own ground-plane and can radiate on any mounting environment such as metal or plastic without affecting performance.

1. Antenna Element Performance

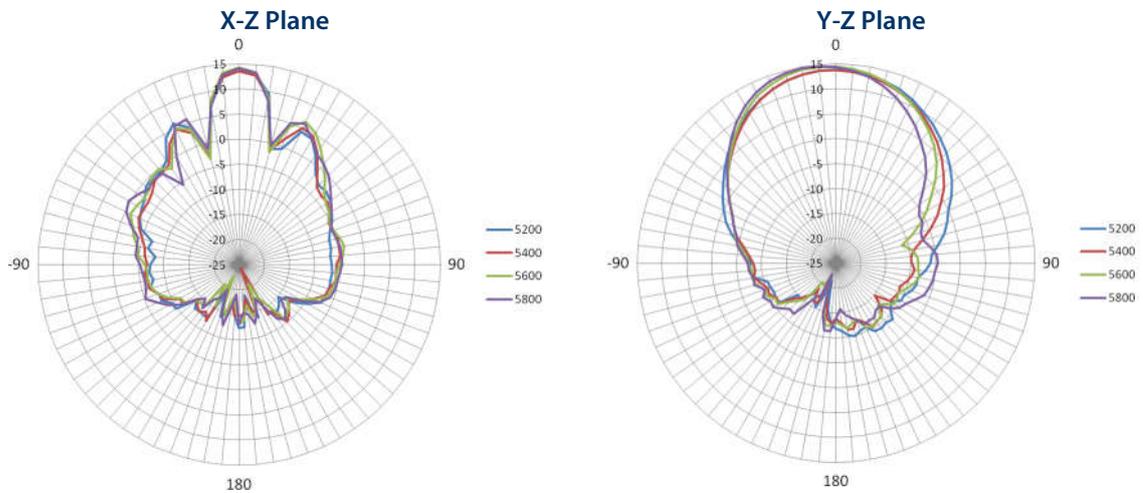
1.1 Performance

Frequency	5.1~5.8 GHz	
Average Peak Gain	Port1	13.5 dBi
	Port2	12.0 dBi
Average Efficiency	Port1	85 %
	Port2	83 %
3dB Beam Width	Port1	XZ: 15° / YZ: 55°
	Port2	XZ: 15° / YZ: 60°
VSWR Max.	2.0 : 1	
ECC	< 0.1	
Isolation	14 dB	
Impedance	50 Ω	
Pattern Type/ Polarization	Directional / Linear	
Degrees of Protection	IP67 (Dustproof and Waterproof)	

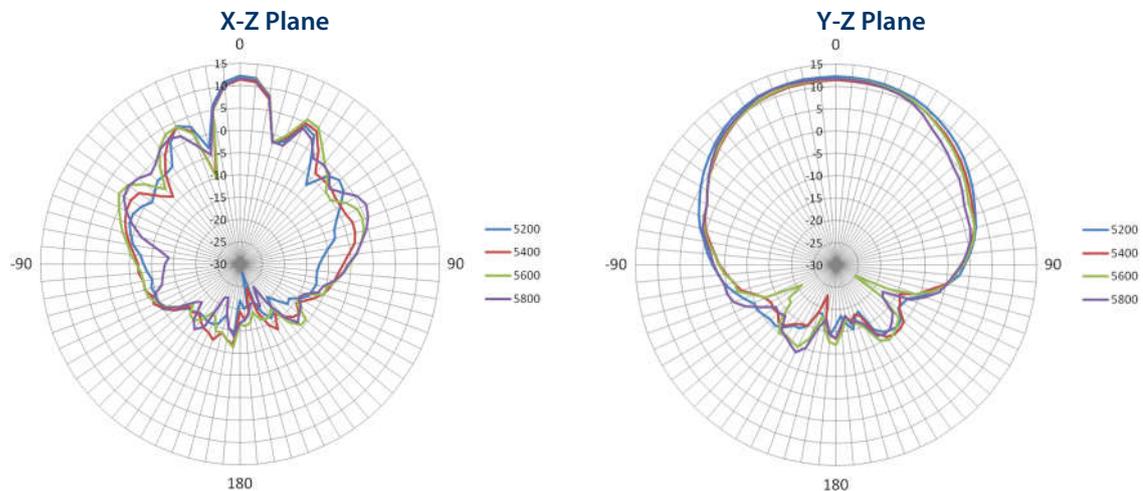
Note: Specifications subject to change without notice.

1.2 Radiation Pattern

● PORT1



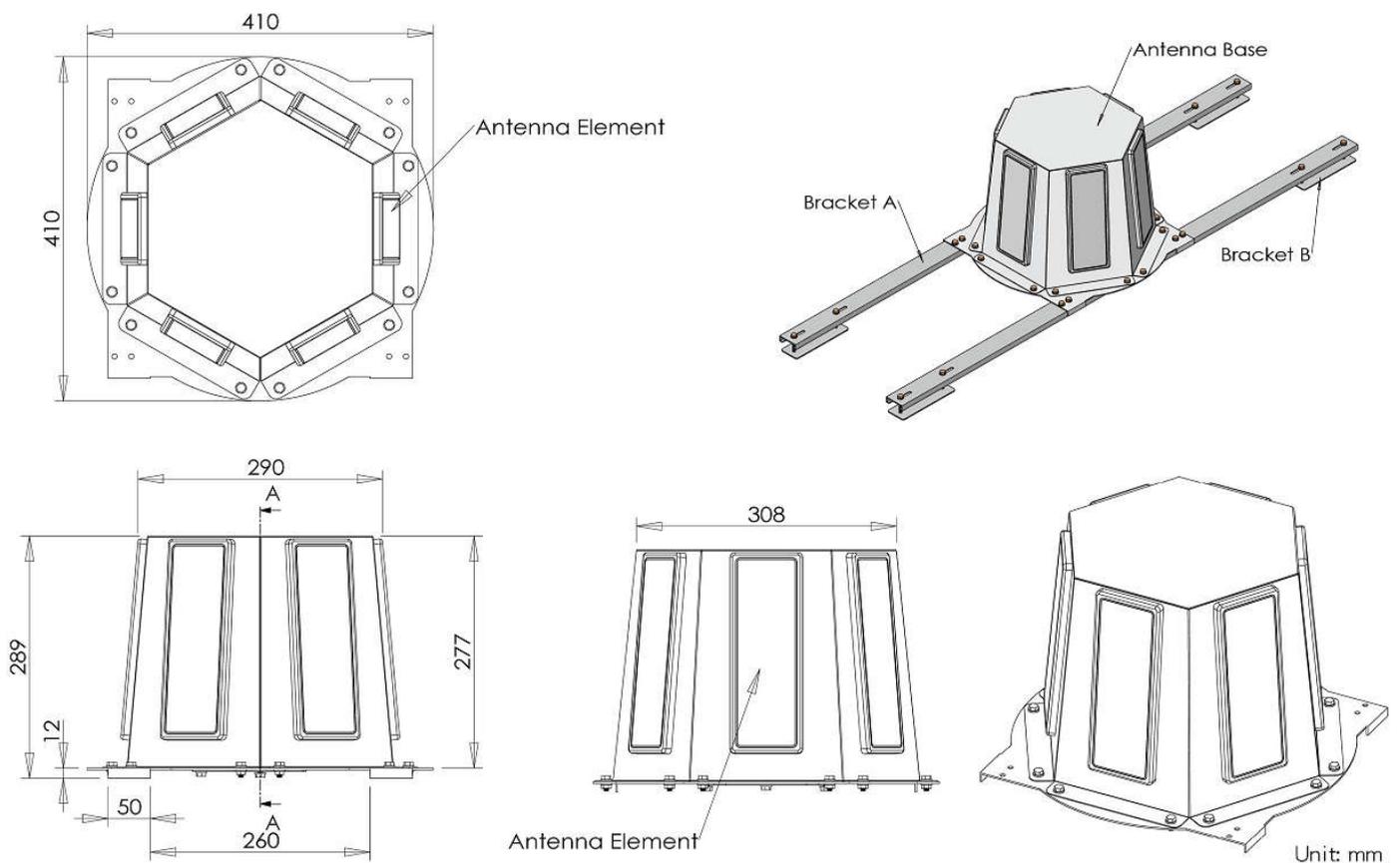
● PORT2



2. Mechanical Specifications

Antenna Base	
Material	SGCC
Size	410 *410 *289 mm
Weight	8.5 Kg max.
Color	White
Antenna Element Connector	SMA Jack (Female)
Bracket	
Material	SUS 304
Size	A: 1300 *49 *13 mm B: 150 *49 *2 mm
Weight	A: 1.5 Kg B: 105 g

Note: Specifications subject to change without notice.



3. Environmental Specification

Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	95%~100% RH

Note: Specifications subject to change without notice.