

Product Specifications

2x2 MIMO 2.4/5GHz 17dBi Sector Antenna

ANT-SE17D/ANT-SE17AD

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2019/03/14	Reyo Wu	Initial release

Author	Reyo Wu	Editor:	Reyo Wu
Reviewed by:	Kent Kang	Approved by:	Kent Kang

1. PRODUCT DESCRIPTION

PLANET brand-new Dual-polarity Sector Antennas feature 2x2 MIMO technology with 17dBi high-gain signal sensitivity and 90-degree sectorial coverage, and are equipped with two N-type female connectors. They are perfectly helpful for 802.11n and 802.11ac outdoor wireless access points in multithreaded communications as they offer a maximum throughput of 300Mbps or 866Mbps for long-distance Point-to-Multipoint coverage and wireless applications.

As the ANT-SE17D/ ANT-SE17AD can effectively enhance the performance and coverage of the 802.11n 2.4/5 GHz environment, it is quite suitable for outdoor wireless LAN applications, such as point-to-point connection between the warehouses.

Fast and Space-saving 2x2 MIMO Antenna

The MIMO sector antenna enables the wireless device to transmit data on one polarization and receive data on the other polarization simultaneously. It thus brings users the advantage of having multithreaded communications with use of only one antenna instead of two independent antennas.

Tough Outdoor Installation

The new MIMO Sector Antenna is housed inside a rugged and weatherproof IP67-rated radome UPVC enclosure, and thus can withstand any harsh weather conditions. They come with adjustable angle brackets for adjusting the coverage angle from 0 to 10 degrees.

2. PRODUCT FEATURES

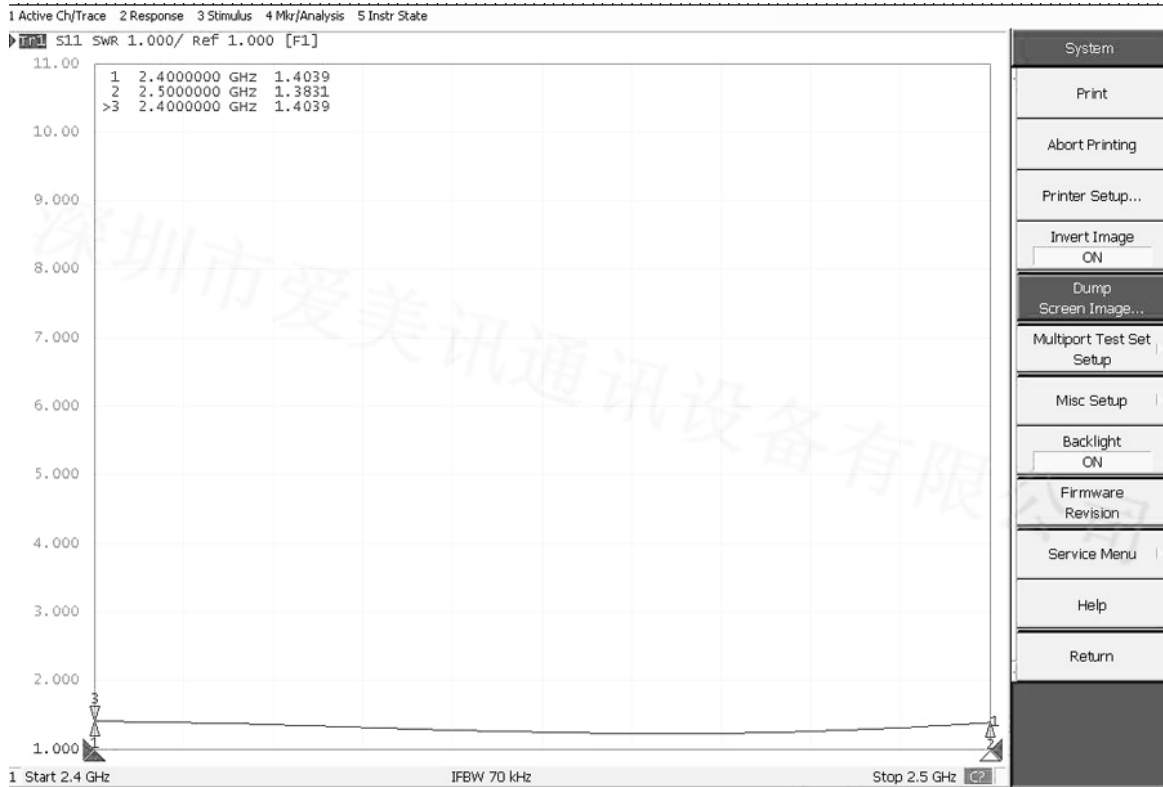
- 2x2 MIMO dual-polarity sector antenna
- Powerful gain of 17dBi and frequency of 2400~2500MHz
- Half-power beamwidth (H: 90 degrees, V: 7 degrees)
- Transmittance distance of up to 8km
- IP67 rating
- 2 N-type female connectors

3. PRODUCT SPECIFICATIONS

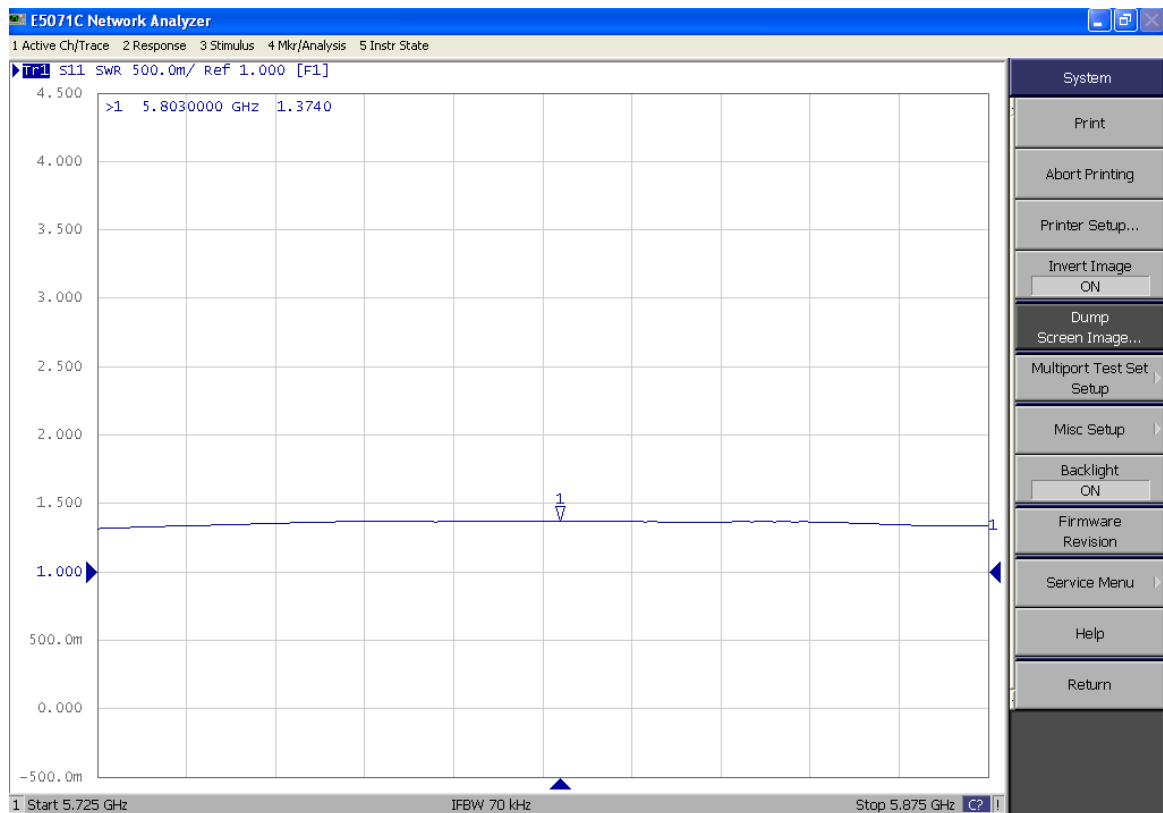
3.1 FUNCTIONAL SPECIFICATIONS

Product	ANT-SE17D	ANT-SE17AD
Frequency	2400-2500MHz	5150-5850MHz
Antenna type	Dual-polarity Sector Antenna	
Gain (dBi)	2 x 16.5	2 x 17
Front-to-back ratio (dB)	≥23	
Input impedance (Ω)	50	
Isolation between ports	≥28dB	
Cross-polar ratio	≥15dB@0 degrees ≥10dB@+/-60 degrees	
Sidelobe suppression for first sidelobe above horizon	15 dB	
VSWR	≤1.5	≤2
Beamwidth angle	Horizontal 90 degrees Vertical 7 degrees	
Maximum input power (W)	200	
Lightning protection	DC grounding	
Input connector type	2 N-type female	
Dimensions (H x W x D)	1000 x 114 x 54 mm	580 x 114 x 54 mm
Antenna weight (kg)	6	3
Mechanical tilt angle	0~10 degrees	
Mounting hardware (mm)	φ 35~ φ 75	φ 35~ φ 90
Rated wind velocity (m/s)	60	
Operating temperature	-40 ~ 60 degrees C	

3.2 PARAMETER TEST DATA:

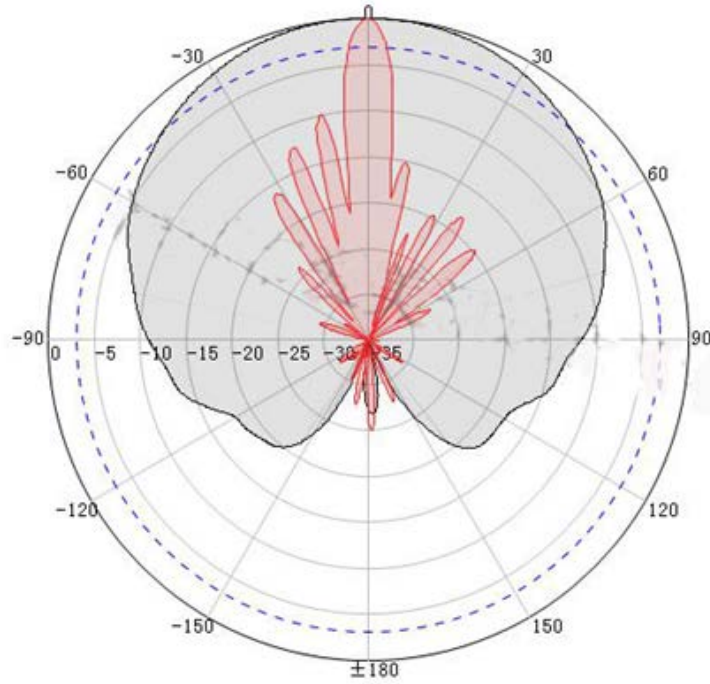


ANT-SE17D

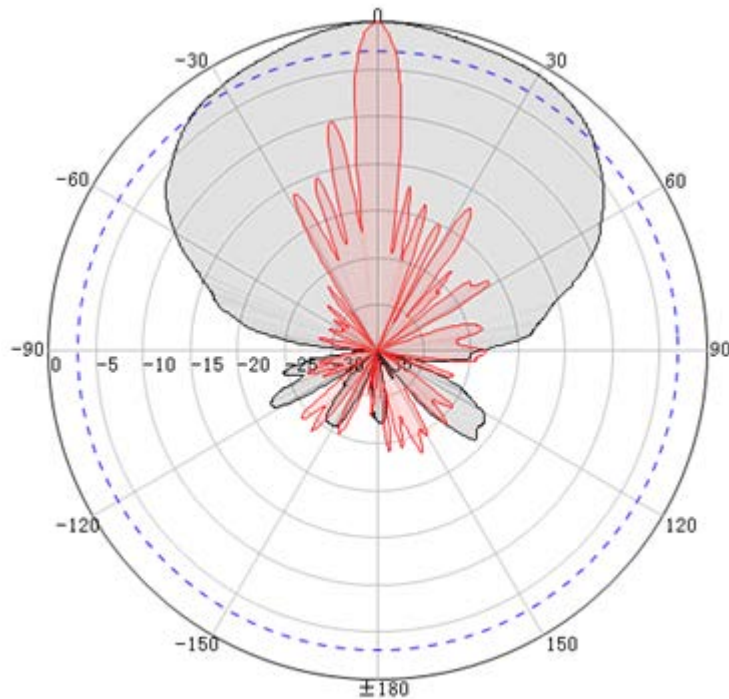


ANT-SE17AD

3.3 RADIATION PATTERN TEST



ANT-SE17D



ANT-SE17AD

3.4 PHYSICAL SPECIFICATIONS

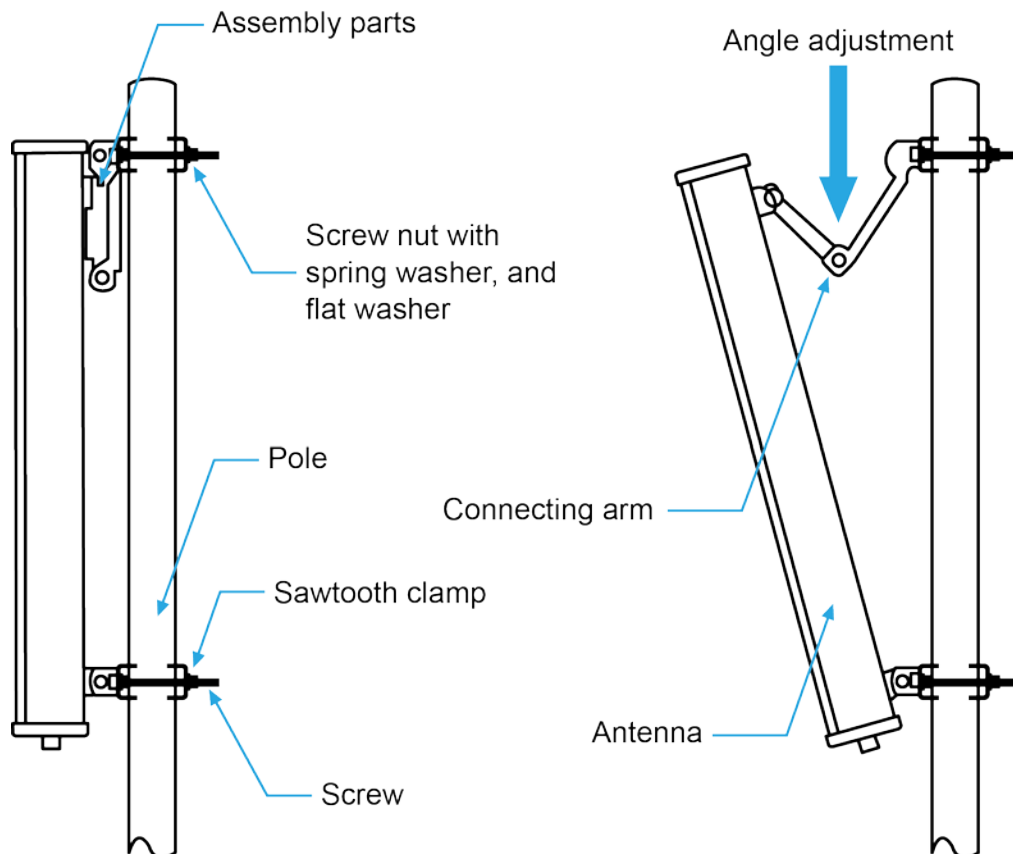
Dimensions: (ANT-SE17D/ANT-SE17AD)

1000 x 114 x 54 mm/580 x 114 x 54 mm

Weight

6.0 kg/3.0 kg (net weight)

Outlook



3.5 BASIC PACKAGING

- ANT-SE17D/ANT-SE17AD x 1
- Bracket x 1 set (assembled with main antenna)

3.6 PACKAGING INFORMATION

- **Dimensions (ANT-SE17D/ANT-SE17AD)**
109.5 x 17.7 x 48 mm / 72 x 51 x 17 cm (L x W x H)
- **Weight**
6.5 kg/3.5 kg (net weight)
20.5 kg/11.5 kg (gross weight)
- **Quantity**
3pcs/carton