

ANT-10AD (5159)

5GHz 2x2 Outdoor IP68 Directional 10dBi
Panel Pole/Wall Mount Antenna

EAN Code : 4712757151282



Introduction

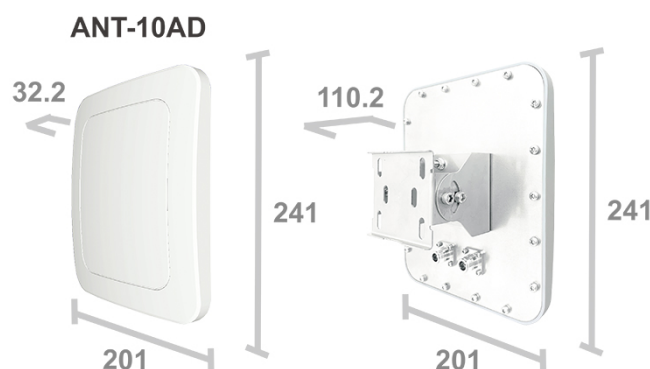
The **CERIO ANT-10AD 5GHz 2x2 Outdoor Directional 10dBi Panel Antenna** supports 5.1 to 5.9 GHz and provides superb performance in Wi-Fi environment. It supports pole and wall mounting installation and constructed with highly UV-resistant PC material (PC-122U) combined with aluminum alloy to achieve a high-sealing **IP68 waterproof design**. All materials are considered good in water tightness and prevention of rust characteristics.

The **CERIO ANT-10AD** outdoor directional Dual Polarization Panel Antenna provides polarized dual-signal characteristics and supports WiFi 2T2R MIMO architecture, replacing traditional configurations that require multiple panel antennas. It supports two N-Type connectors for easy connection to wireless AP using low-loss RF antenna cables. Users only need one **ANT-10AD** to achieve MIMO transmission requirements that would otherwise require multiple antennas. Providing stable and efficient multi-data transmission and reception capabilities, it is an ideal solution for high-speed, long-range WiFi applications.

Highlight Features

- Supports 5.1~5.9GHz.
- High Gain: 10dBi.
- **Vertical installation:**
Horizontal beam 35°, Vertical beam 30°
- **Horizontal installation:**
Horizontal beam 30°, Vertical beam 35°
- High performance.
- IP68 waterproof protection rating, suitable for applications in various weather conditions.
- Beaufort scale 17 wind load test certificated.
- Polarized dual-gender design and supports two N-Type (Female) connectors.
- Packaging includes SUS304 stainless steel single-axis adjustable mounting bracket (OW-PKUR).
(Please refer to the detailed specifications of OW-PKUR)
- High-sealing structure with UV resistance, high-temperature durability, combines aluminum alloy and stainless steel materials, ensuring weather resistance and extended lifespan.

Hardware Overview & Dimension

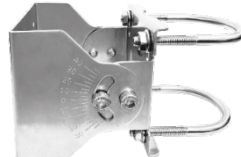


Main Unit Dimension : 241 * 201 * 32.2mm (L x W x H)
Mounting Bracket : 81 * 85 * 78 mm (L x W x H)
Weight : 720g / 1.01kg (Including OW-PKUR bracket)

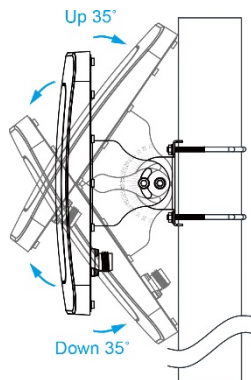
Adjustable Mounting Bracket Installation (OW-PKUR)



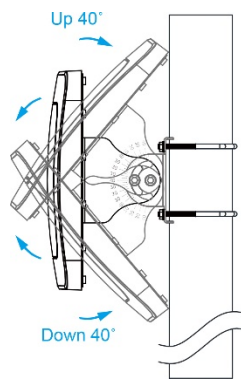
**Adjustable bracket match
SUS304 Hose Clamp**
Available inside diameter :
Ø30 - Ø90mm



**Adjustable bracket match
SUS304 M6 U-bolt**
Available inside diameter :
Ø34mm - Ø 54mm



Panel Vertical Installation:
Upward and Downward
Max. 35°

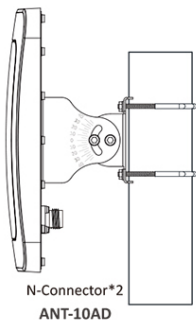


Panel Horizontal Installation:
Upward and Downward
Max. 40°

Product Application

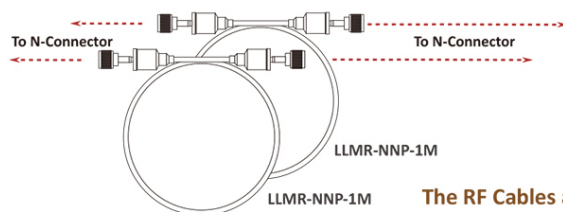
ANT-10AD

5Ghz Antenna

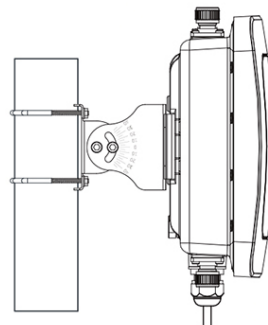


RF Cables

**Connect the N connector between
the antenna and the outdoor AP**

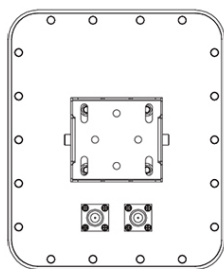


Outdoor AP Device



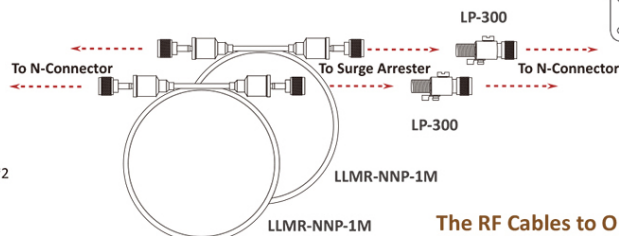
The RF Cables and Outdoor AP Device By Optional

5Ghz Antenna



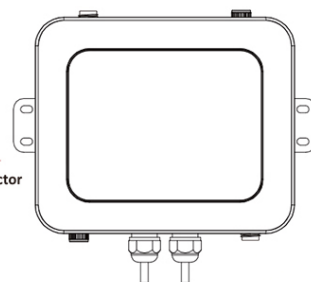
RF Cables

**Connect the N connector between the
antenna and the Surge Arrester & outdoor AP**



Surge Arrester

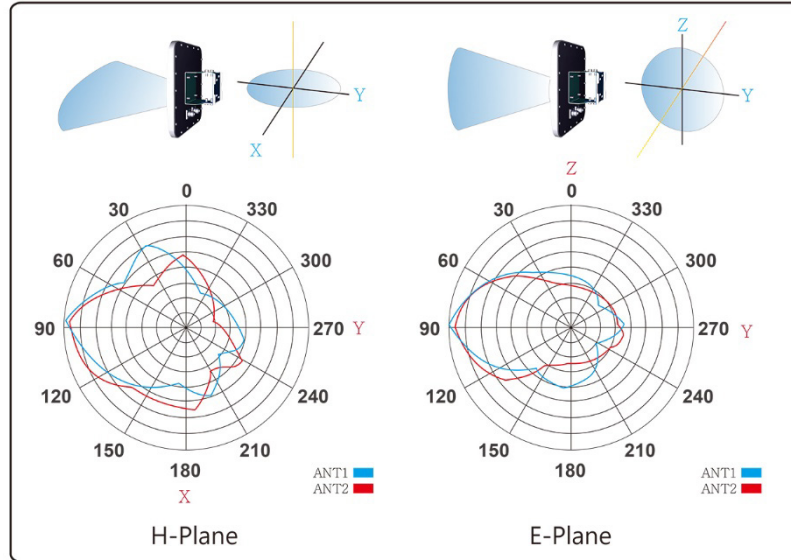
Outdoor AP Device



The RF Cables to Outdoor AP Device By Optional

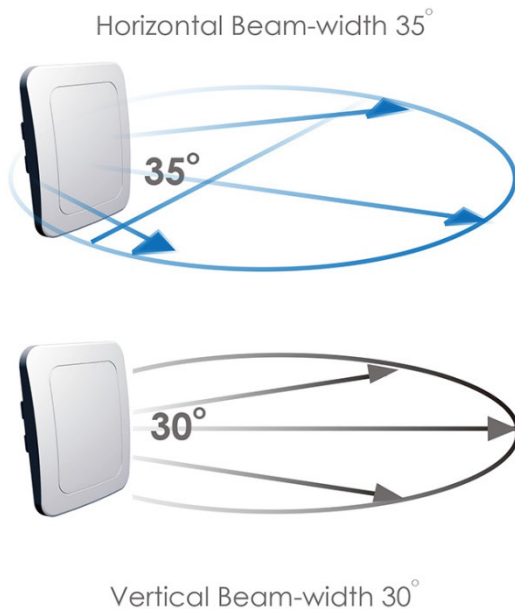
Antenna Radiation Pattern

RADIATION PATTERN - 5GHz 10dBi : ANT-10AD

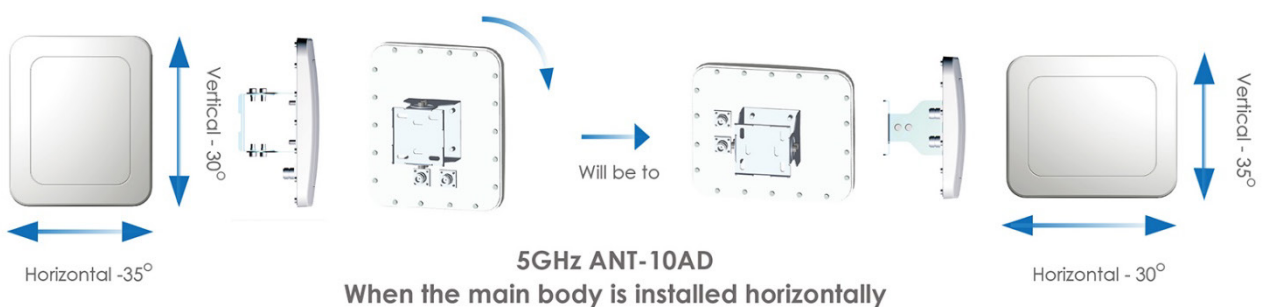
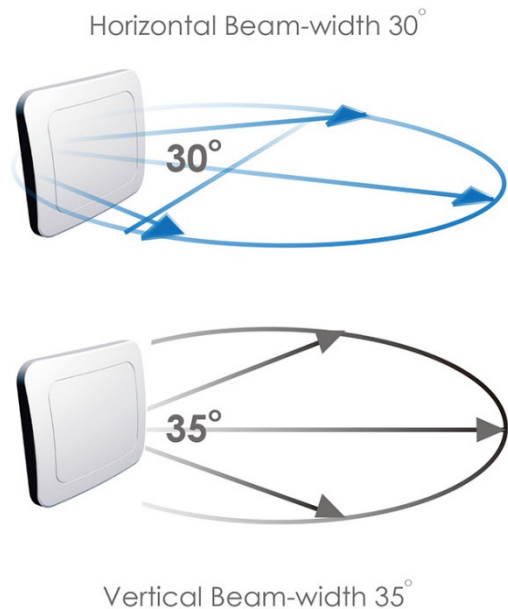


Antenna Angle and Coverage

5GHz 2x2 ANT-10AD
When the main body is installed vertically



5GHz 2x2 ANT-10AD
When the main body is installed horizontally



5GHz ANT-10AD
When the main body is installed horizontally

Specifications

Antenna Type
Outdoor Directional Panel Antenna (Horizontally-Polarized) Dual Polarization Antenna
Frequency Range
5.1 ~ 5.9GHz
Wireless Specification
Wireless 2T2R MIMO
Antenna Gain
10dBi
V.S.W.R
≤ 1.5
Beam Width
Vertical installation: Horizontal beam 35°, Vertical beam 30°
Horizontal installation: Horizontal beam 30°, Vertical beam 35°
Polarization
Vertical & Horizontal (Linear)
Input Impedance
50 Ohms
Materials
UV-resistant PC-122U + 2t aluminum alloy
Connector
N-Type Female x2
Form Factor
Supports Wall / Pole Mounting Installation
Adjustable range (with OW-PKUR mounting bracket)
Adjustable bracket match SUS304 M6 U-bolt Available inside diameter : Ø34mm - Ø 54mm Adjustable bracket match SUS304 Hose Clamp

Available inside diameter : Ø30 - Ø90mm

Horizontal column hanging axis:

360°horizontal rotation

Up and down angle:

Maximum upward 40°, downward 40°

Operation Temperature

-50°C - + 85°C

Storage Temperature

-50°C - + 85°C

Humidity

5~90% maximum (non-condensing)

IP Rating

IP68 Rating (waterproof approval)

Maximum Wind Resistance Velocity

Beaufort scale 17 wind load test certificated

Dimension

Antenna: 201*241*32.2 (L x W x H)mm

Mounting bracket: 83*85*78 (L x W x H)mm

Weight

720g

Production Location

TW





Certifications








RoHS Compliant

Package Contents

Package Contents
ANT-10AD (5159) Main Unit
Adjustable Pole & Wall Mounting Kit(OW-PKUR)
Quick Installation Guide(Chinese/English)
Warranty Card
x1
x1
x2
x1

Related Products

Model No.	Photo	Description
ANT-10FD (2425)		2.4GHz 2x2 Outdoor IP68 Wide Rang Directional 10dBi Panel Pole/Wall Mount Antenna
ANT-10AD (5159)		5GHz 2x2 Outdoor IP68 Directional 10dBi Panel Pole/Wall Mount Antenna
ANT-14AD (5165)		5-6.5GHz 2x2 Outdoor IP68 Wide Range Directional 14/10dBi Panel Pole/Wall Mount Antenna
ANT-18AD (5159)		5GHz 2x2 Outdoor IP68 Directional 18dBi Panel Pole/Wall Mount Antenna

ANT-15AQ (5165)		5-6.5GHz 4x4 Outdoor IP68 Wide Range Directional 15/10dBi Panel Pole/Wall Mount Antenna (Can be utilized for dual 2x2 MIMO sets of mesh backbone link stacking applications.)
ANT-05FN-S (2425)		2.4Ghz Outdoor thin type Omni 5dBi Plug Antenna
ANT-07AN-S (5159)		5Ghz Outdoor thin type Omni 7dBi Plug Antenna
LLMR-NNP-1M		1M N-Plug (Male) to N-Plug (Male) LLMR200 Low Loss RF Antenna Cable
LLMR-NNP-2M		2M N-Plug (Male) to N-Plug (Male) LLMR200 Low Loss RF Antenna Cable
LP-300		2.4GHz / 5GHz / 6Ghz N-Female to N-Male Lightning Protector
OW-PKUR		Uniaxial Rotate Stainless Bracket Set(Wall Mount / Hose Clamp / U Bolt)