

ANT-18AD

5GHz 2x2 Outdoor IP68 Directional 18dBi
Panel Pole/Wall Mount Antenna

EAN Code : 4712757151299



Introduction

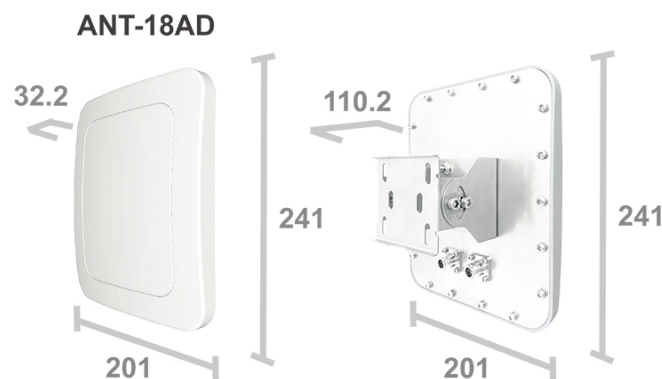
The CERIO ANT-18AD 5GHz 2x2 Outdoor Directional 18dBi Panel Antenna supports 5.1 to 5.9 GHz and provides superb performance in IEEE 802.11a/an/ac/ax Wi-Fi environment. It supports pole and wall mounting installation and constructed with highly UV-resistant PC material (PC-122U) combined with aluminum alloy to achieve a high-sealing **IP68 waterproof design**. All materials are considered good in water tightness and prevention of rust characteristics.

The **ANT-18AD** 5GHz 2x2 outdoor directional Dual Polarization Panel Antenna provides polarized dual-signal characteristics, allowing multiple antenna applications for 11ac/ax 2T2R MIMO. The user only uses one set of **ANT-18AD** Dual Polarization antenna with 2 sets of N-Type connectors for connection with low-attenuation RF cables and WiFi AP to complete 11ac/ax 2T2R MIMO applications that require multiple antennas. The perfect solution for faster, longer distances with 11ac/ax 2T2R MIMO multi-radio reception and wireless transmission.

Highlight Features

- Supports 5GHz 5.1~5.9GHz IEEE 802.11a/an/ac/ax.
- High Gain: 18dBi.
- **Vertical installation:**
Horizontal beam 18°, Vertical beam 14°
- **Horizontal installation:**
Horizontal beam 14°, Vertical beam 18°
- 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

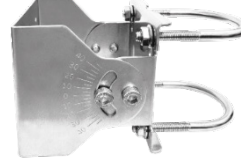


Main Unit Dimension : 241 * 201 * 32.2mm (L x W x H)
Mounting Bracket : 81 * 85 * 78 mm (L x W x H)
Weight : 812g / 1.1kg (Including OW-PKUR bracket)

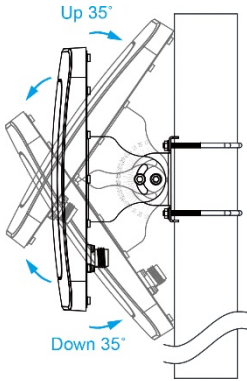
Adjustable Mounting Bracket Installation (OW-PKUR)



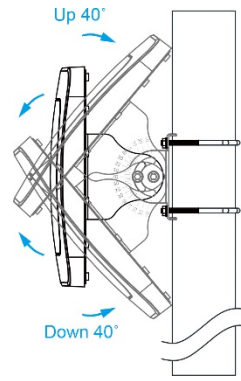
**Adjustable bracket match
SUS304 Hose Clamp**
Available inside diameter :
Ø30 - Ø90mm



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



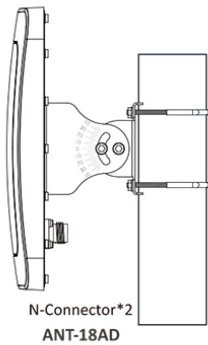
Panel Vertical Installation:
Upward and Downward
Max. 35°



Panel Horizontal Installation:
Upward and Downward
Max. 40°

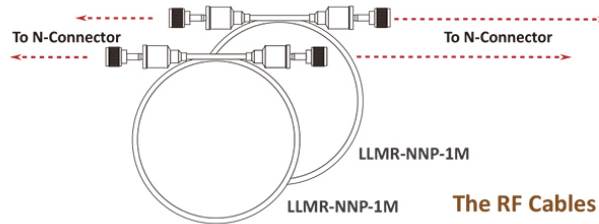
Product Application

5Ghz Antenna

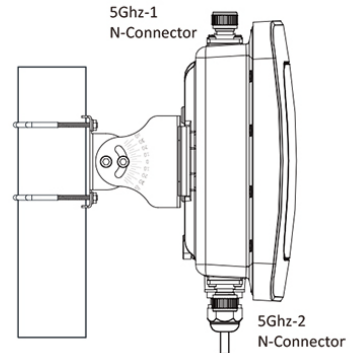


RF Cables

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

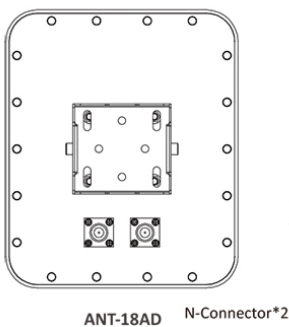


Outdoor AP Device



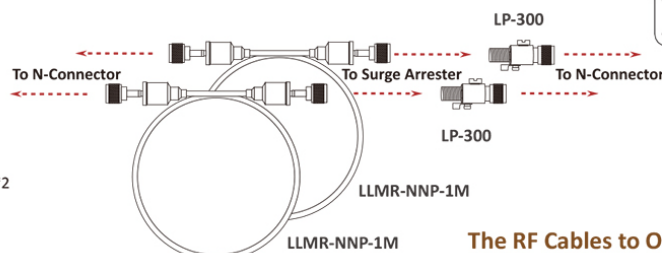
The RF Cables and Outdoor AP Device By Optional

5Ghz Antenna



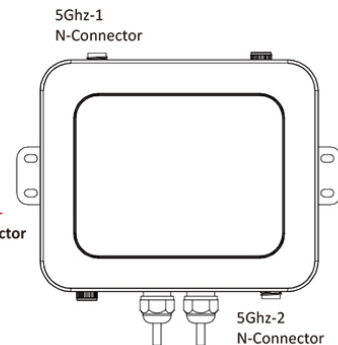
RF Cables

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



Surge Arrester

Outdoor AP Device

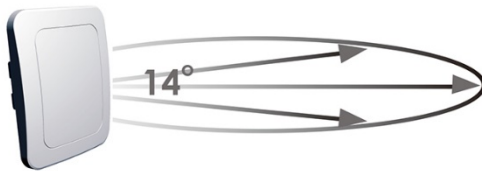
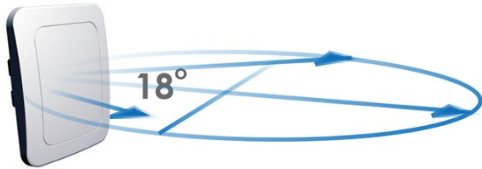


The RF Cables to Outdoor AP Device By Optional

Antenna Coverage

5GHz 2x2 ANT-18AD
When the main body is installed vertically

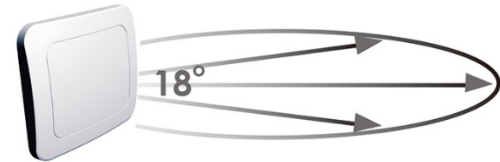
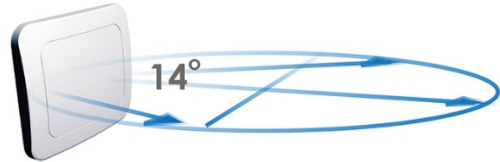
Horizontal Beam-width 18°



Vertical Beam-width 14°

5GHz 2x2 ANT-18AD
When the main body is installed horizontally

Horizontal Beam-width 14°

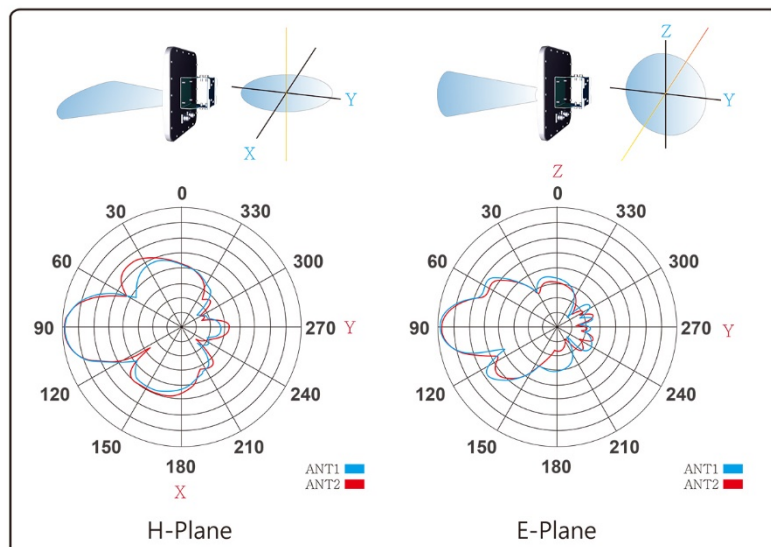


Vertical Beam-width 18°



Radiation Pattern

RADIATION PATTERN - 5Ghz 18dBi : ANT-18AD



Specifications







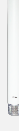



Antenna Type	Outdoor Directional Panel Antenna (Horizontally-Polarized) Dual Polarization Antenna
Frequency Range	5.1 ~ 5.9GHz (11a/an/ac/ax)
Network Specification	Wireless 5Ghz IEEE 802.11a/an/ac/ax MIMO
Antenna Gain	18dBi
V.S.W.R	≤2.0
Beam Width	Vertical installation: Horizontal beam 18°, Vertical beam 14° Horizontal installation: Horizontal beam 14°, Vertical beam 18°
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 812g
	Production Location TW
	Certifications RoHS Compliant

Package Contents

Package Contents	
ANT-18AD Main Unit	x1
Adjustable Pole & Wall Mounting Kit(OW-PKUR)	x1
Quick Installation Guide	x1
Warranty Card	x1

Related Products

Model No.	Photo	Description
ANT-10FD		2.4GHz 2x2 Outdoor IP68 Wide Rang Directional 10dBi Panel Pole/Wall Mount Antenna
ANT-10AD		5GHz 2x2 Outdoor IP68 Directional 10dBi Panel Pole/Wall Mount Antenna
ANT-14AD		5GHz 2x2 Outdoor IP68 Wide Rang Directional 14dBi Panel Pole/Wall Mount Antenna
ANT-18AD		5GHz 2x2 Outdoor IP68 Directional 18dBi Panel Pole/Wall Mount Antenna
ANT-15AQ		5GHz 4x4 Outdoor IP68 Wide Rang Directional 15dBi Panel Pole/Wall Mount Antenna (Can be utilized for dual 2x2 MIMO sets of mesh backbone link stacking applications.)
ANT-05FN-S		2.4Ghz Outdoor thin type Omni 5dBi Plug Antenna
ANT-07AN-S		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		11nabg 2.4GHz / 5GHz N-Female to N-Male Lightning Protector