Item	Description	Graphics	Qty
D2	Mounting bracket (D2)		1
D3	Mounting bracket (D3)		1
D4	Spacing tube		1
D5	Screw bolt M8 x 65		1
D6	Screw bolt M8 x 25		1
D7	Screw bolt M6 x 12		3
D8	Spring washer $\Phi 8$		2
D9	Spring washer Φ6	Ô	3
D10	Screw nut M8	6	2
D11	Locknut M8		2
D12	Hose clamp (102-152mm)		2
D13	Expansion bolt M6x60		4

NOTES:

- Component dimensions are in metric.
- The weatherproof caps for Ethernet and Console are connected to the AP, not loose in the package.
- Do not open or remove the Protective vents.
- Inform your supplier if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing material. Use these materials to repack and return the unit to the supplier if needed.

1.2. Hardware Overview

Figure 2: AP361/AP361D Front View

Alcatel-Lucent

Figure 3: AP361e Front View

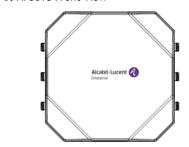
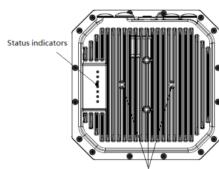
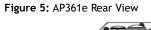


Figure 4: AP361/ AP361D Rear View





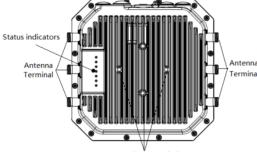
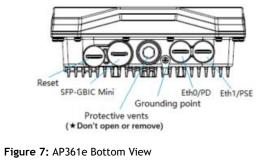
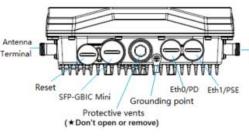


Figure 6: AP361/ AP361D Bottom View





1.3. Pre-Installation Checklist

Before installing your AP361 Series, be sure that you have the materials and tools listed below:

- IEEE 802.3af compliant PoE source.
- Gigabit Ethernet cable of required length and RJ45 connector.
- Grounding wire #8AWG of required length.
- Tools:
 - Ratchet wrench
 - Hexagon sockets
 - Screw driver Rotary hammer
 - Percussion bit $\Phi 8$
 - Ratchet Crimping Plier for non-insulated terminal
 - Crimping Tool for RJ45 Modular Plug
 - Ethernet cable tester. Heat shrinkable tube
 - Heat gun

1.4. Deployment Process Overview

The deployment of an Access Point typically consists of the following stages:

- WLAN Planning—The administrator determines how many APs will be needed for their wireless network strategy and where they will be deployed.
- AP Installation—Each AP can be physically installed at proper location. Each location should be as close as possible to the center of the intended coverage area and should be free from obstructions or obvious sources of interference
- AP Configuration-The administrator defines the operational behavior for each AP, such as RF characteristics and security features.

NOTES:

- Installing the Outdoor Access Point requires professional training. The AP must be professionally installed by a qualified engineer familiar with WLAN system.
- For AP configuration information, please refer to the User Guide

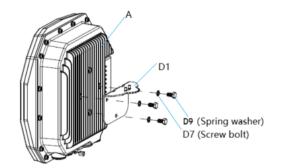
2. Installing the AP

- 2.1. Using the Mounting Kits
- 2.1.1. Assembling Access Point(A) with *Mounting bracket(D1)*, to get Subassembly (E1)
- 2.1.1.1. Materials Preparation

Table 2

ltem	Description	Graphics	Qty
А	Access Point OAW-AP1360 series		1
D1	Mounting bracket (D1)		1
D7	Screw bolt M6 x 12		3
D9	Spring washer Φ6	Ô	3

the AP(A) with Mounting Connecting Step-1. bracket(D1)



Step-2. Get Subassembly (E1)



Note: bolt(D7)

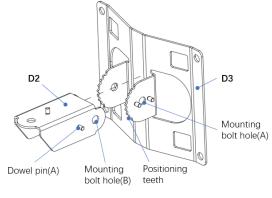
2.1.2.	Assembling Mount
	with bracket(D3),
	Subassembly(E2)

2.1.2.1. Materials Preparation

Item	Description	Graphics	Qty
D2	Mounting bracket (D2)	0 E	1
D3	Mounting bracket (D3)		1
D4	Spacing tube		1
D5	Screw bolt M8 x 65		1
D8	Spring washer Φ8	0	1
D10	Screw nut M8	6	1
D11	Locknut M8		1

2.1.2.2. Assembly Processes

Step-3.



- Step-4.
 - Mounting bracket(D3)

Chan d	Composition	44.4	40(4)	
2.1.1.2.	Assembly Pro	ocesses		

moisture and precipitation, and electrical interfaces include industrial strength surge protection. The OAW-AP1360 series supports a maximum concurrent data rate of 1.267Gbps (867Mbps in 5GHz and 400Mbps in 2.4GHz), and

antennas, it is ideal for medium density outdoor environments.

1.1. Package Contents

1. Introduction

Item	Name	Qty	Unit
1	Outdoor Access Point	1	Pcs
	Quick Start Guide	1	Pcs
	Installation Guide	1	Pcs
2	Regulatory Compliance and Safety Information	1	Pcs
	User Guide Info Card	1	Pcs
3	Cable Gland	3	pcs

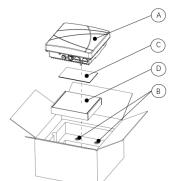
The high performance and rugged OAW-AP1360 series

supports IP67 standard for harsh outdoor environments,

such as exposure to high and low temperatures, persistent

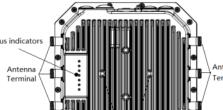
dual Gigabit Ethernet links, integrated omni directional

Figure 1: Product Packing

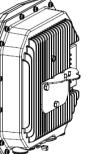


• Outdoor AP mounting kit package, which contains the following items. (To be ordered separately)

Table 1				
Item	Description	Graphics	Qty	
D1	Mounting bracket (D1)		1	



Step-1



Step-2

• Must use a proper Ratchet wrench to tighten the Screw

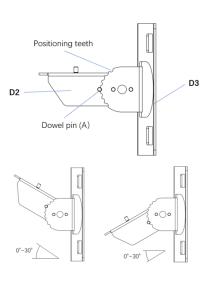
ng Mounting bracket(D2) cket(D3), to get

Ta	ble	3

Insert the Mounting bracket (D2) into bracket (D3), and align Mounting bolt hole(A) with Mounting bolt hole(B).

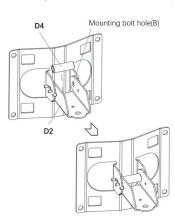
Step-3

To get a required installation angle of pitch, adjusting the *Dowel pin(A)* on *Bracket(D2)* to match up with the Positioning teeth of



Step-4

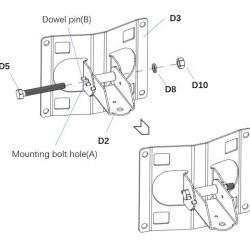
Insert the Spacing tube (D4) into bracket (D2), Step-5. align the hole of the tube (D4) with the Mounting bolt hole (B) of *bracket (D2)*.



Step-5

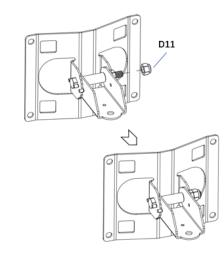
Step-6.

From the side of bracket (D3), where Dowel pin (B) stands, put the Screw bolt (D5) through the Mounting bolt hole(A) and stick out at the other side. Make sure the Screw bolt goes through Mounting bracket(D3), bracket(D2) and Spacing tube(D4) in sequence. Then put a Spring washer (D8) and a Screw nut (D10) on it in sequence. Finally, tighten the Screw nut (D10) with ratchet wrench.



Step-6

Step-7. To prevent the screw nut from loosening and for better reliability, put a *Locknut(D11)* on the end of the Screw bolt(D5). Then tighten it up with ratchet wrench.

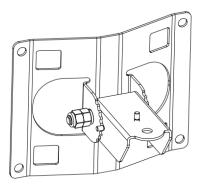


Step-7

Note:

• Must use a proper Ratchet wrench to tighten the Screw nut(D10) and the Locknut(D11)

Step-8. Get Subassembly (E2)



Step-8

2.1.3. Assembling Subassembly(E1) with Subassembly(E2), to get Final-Assembly (F)

2.1.3.1. Materials Preparation

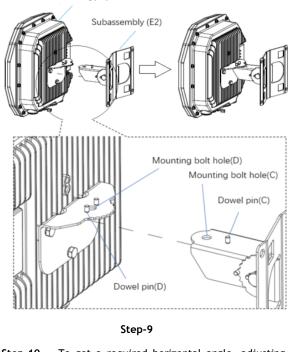
Table 4

ltem	Description	Graphics	Qty
E1	Subassembly (E1)		1
E2	Subassembly (E2)		1
D6	Screw bolt M8 x 25		1
D8	Spring washer Ø8	Ø	1
D10	Screw nut M8		1
D11	Locknut M8		1
	E1 E2 D6 D8 D10	E1Subassembly (E1)E2Subassembly (E2)D6Screw bolt M8 x 25D8Spring washer Φ8D10Screw nut M8	E1 Subassembly (E1)

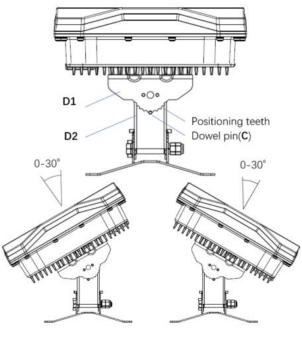
2.1.3.2. Assembly Processes

Overlap Subassembly (E1) to Subassembly Step-9. (E2), align the Mounting bolt hole(C) with Mounting bolt hole(D).

Subassembly(E1)

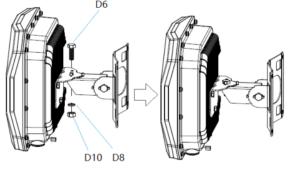


Step-10. To get a required horizontal angle, adjusting the *Dowel pin(C)* on *Bracket(D2)* to match up with the Positioning teeth of **Bracket (D1)**.



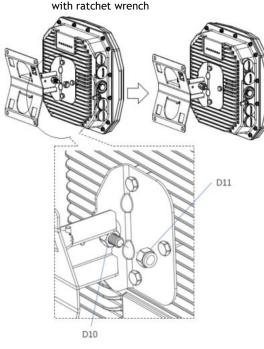
Step-10

Step-11. From the side of *Bracket (D1)*, where *Dowel pin* (D) stands, put the Screw bolt (D6) through the Mounting bolt hole(D) and stick out at the other side. Make sure the Screw bolt goes through Mounting bracket(D1) and bracket(D2). Then put a Spring washer (D8) and a Screw nut (D10) on it in sequence. Finally, tighten the Screw nut (D10) with ratchet wrench.



Step-11

Step-12. To prevent the screw nut from loosening and for better reliability, put a Locknut (D11) on the end of the Screw bolt(D6). Then tighten it up

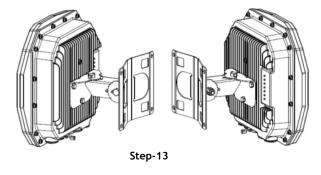


Step-12

Note:

• Must use a proper Ratchet wrench to tighten the Screw nut(D10) and the Locknut(D11)

Step-13. Final assembly (F)



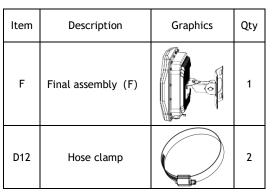
2.2. Mounting the AP to a Pole or a Wall

The AP361 series is for outdoor deployment, it can be mounted to a pole or a wall by using the accessories in the mounting kit package.

2.2.1. Pole Mounting

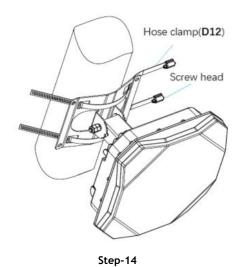
2.2.1.1. Materials Preparation



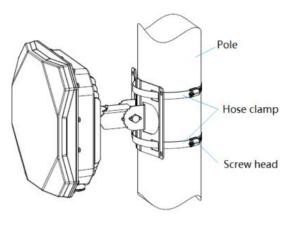


2.2.1.2. Mounting Processes

Step-14. Threading the Hose clamps(D12) through the square mounting holes in bracket (D3) separately. Considering your handedness, the direction of the *screw head* on the hose clamp should be determined before you thread.



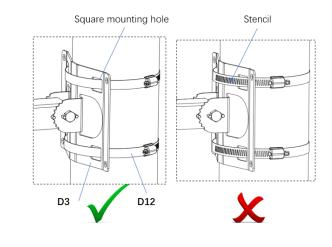
Step-15. Mounting to a pole



Step-15

Caution:

- Use caution to prevent hand injury!
- For safety, the stencil area in steel belt of the hose clamps(D12) should avoid overlapping the edge of square mounting holes on bracket (D3).

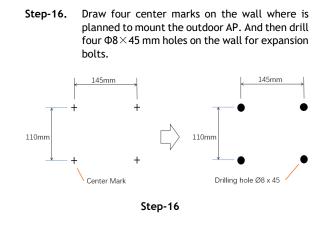


- 2.2.2. Wall Mounting
- 2.2.2.1. Materials Preparation

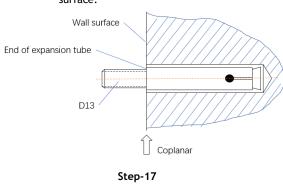
Table 6

Item	Description	Graphics	Qty
F	Final assembly (F)		1
D13	Expansion bolt M6 x 60		4

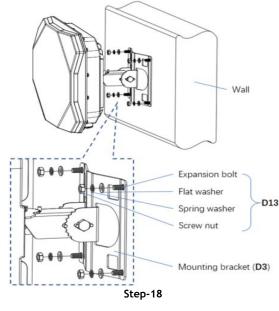
2.2.2.2. Mounting Processes



Step-17. Insert 4 *Expansion bolts(D13)* into the holes on the wall separately. Make sure that the end of the expansion tube should be coplanar to wall surface.



Step-18. Put the 4 expansion bolts through the 4 mounting holes in *bracket(D3)*. Then put a *flat* washer, a spring washer and a screw nut on each expansion bolt in sequence. Finally, tighten the 4 screw nuts with ratchet wrench.

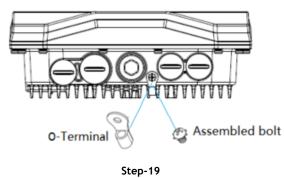


2.3. Grounding the AP

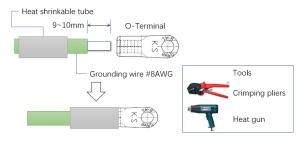
Never forget to protect the AP by installing grounding wire. The grounding must be completed before powering up the AP.

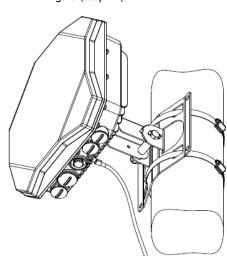
2.3.1. Grounding Preparation

Step-19. Screw off the *O-Terminal* from the AP and keep it with the Assembled bolt.

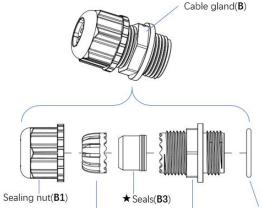


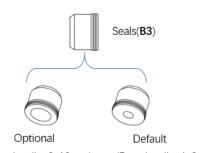
- 2.3.2. Crimping the Grounding wire
- **Step-20.** Peel the cover of one end of the grounding wire and place the bare grounding wire into the O-Terminal, and press firmly with the crimping pliers. A heat shrinkable tube is suggested to put on.





your AP





Optical fiber cable

Step-20

2.3.3. Connecting the Grounding Wire

Step-21. Fasten the *O-Terminal* to the grounding hole on the AP with the Assembled bolt, take pole mounting circumstances for example as shown in figure (Step-21).



2.4. Connecting the Ethernet Cable

To connect the Ethernet cable to the AP, perform the following steps using the *Cable glands(B)* that ships with

2.4.1. The Cable Gland(B)

The Cable gland(B) is composed of 5 elements, which are Sealing nut(B1), Clamping ring(B2), Seals(B3), Gland body(B4) and O-ring(B5)

Clamping ring(B2) Gland body(B4) O-ring(B5)

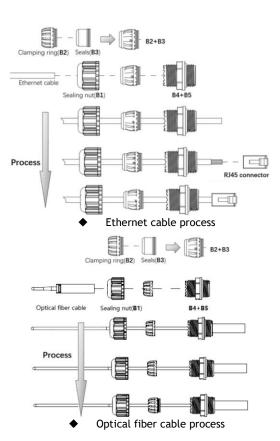
Cable gland(B) composition

The Seals(B3) inside the Cable gland(B) by factory default is applicable for cables with 4-6mm diameter. In the cable gland kit, another seals is provided for use with cable with 6-10mm diameter.

(For wire dia. 6-10mm) (For wire dia. 4-6mm)

2.4.2. Crimping the Ethernet cable and

Step-22. The following figure shows the process of crimping Ethernet cable and Optical fiber cable.

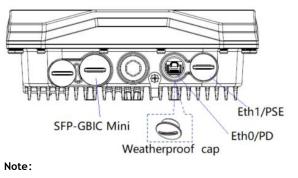


Step-22

Caution:

- Do Not peel the cover of the Ethernet cable or attach the RJ45 connector to the cable before sliding the Cable gland(B) over the cable.
- Failure to use the included Ethernet cable glands can lead to product issues.

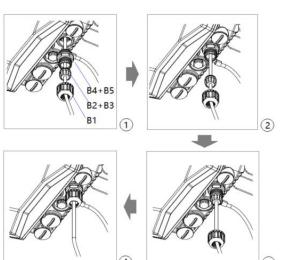
2.4.3. Remove the Weatherproof Cap



• Keep the weatherproof caps on the AP tightly while you don't plan to use the related ports.

2.4.4. Connecting the cable

- Step-23. Connect the Uplink Ethernet cable, which will be powered up and was crimped in Step-22, to either Ethernet Port-0 or Ethernet Port-1. And then, screw the Gland body(B4+B5) onto the Ethernet port with proper wrench.
- Step-24. Connect the Seals with Clamping ring(B2+B3) to the Gland body(B4), and then screw the Sealing nut(B1) onto the Gland body(B4) and tighten it firmly.



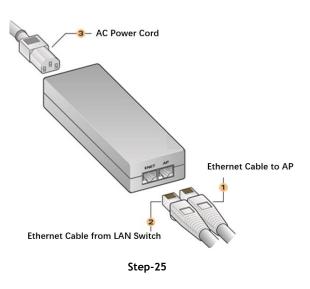
Step-23 & Step-24

Caution:

- Do not screw the Sealing nut(B1) onto the Gland body(B4) before connecting the RJ45 connector to the Ethernet port.
- Must use a proper wrench to tighten the Gland body.

2.5. Powering up the AP by PoE Source

Step-25. The OAW-AP1360 series supports IEEE 802.3af Compliant PoE source, accepting 48V DC(Nominal). A PoE injector as example is shown in the following figure.



3. Product Specifications

3.1. Dimensions/weight

• Single AP excluding packing box and accessories: 243mm (W) ×243mm (D) ×85mm(H) / 2230g.

3.2. Interfaces

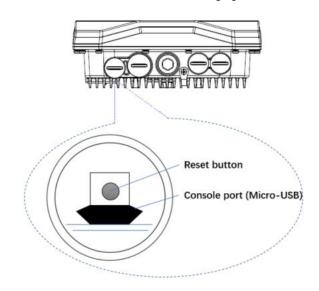
3.2.1. Ports List

Table 7

Item Name	Description
☆Eth1/PSE	1x10/100/1000Base-T auto-sensing (RJ-
	45) port, Power over Ethernet (PoE)
☆Eth0/PD	1x 10/100/1000Base-T auto-sensing (RJ-
	45) port, Power over Ethernet (PoE)
☆SFP-GBIC	
Mini	
★Console	1x management console port (Micro-
	USB)
★Reset	Factory reset, for more information,
Button	refer to datasheet.

 \Rightarrow Either ENET0 or ENET1 supports PoE source. If both ports are connected to PoE source, the PoE function will only be activated in the first connected port.

• Screw off the smaller weatherproof cap on the left side in Bottom View of AP, you can see the Micro-USB console port and the reset button as shown in the following figure.



3.2.2. Ethernet Port Pin-outs

The Ethernet Ports of AP1360 series have RJ-45 female connectors with pin-outs shown in table 8.

Table 8

Ethernet Port / RJ45 Female	Pin	Signal Name	Function	
	1	BI DA+	Bi-directional pair	
		-	+A, PoE Negative	
	2	BI DA-	Bi-directional pair	
$\int_{\Gamma} \frac{1}{2}$	2		-A, PoE Negative	
	3	BI_DB+	Bi-directional pair	
			+B, PoE Positive	
	4	4	BI DC+	Bi-directional pair
8			DI_DC+	+C, PoE Positive
	5		Bi-directional pair	
	5	BI_DC-	-C, PoE Positive	

	6	BI_DB-	Bi-directional pair
			-B, PoE Positive
	7	BI_DD+	Bi-directional pair
			+D, PoE Negative
	8	BI_DD-	Bi-directional pair
			-D, PoE Negative

3.3. Power

Maximum (worst case) power consumption:
 <11.8W (802.3af PoE)

3.4. Environmental

- Protective level of enclosure: IP67
- Operating
 Temperature: -40°C to 65°C
 Humidity: 5% to 95% non-condensing

Storage and transportation

Temperature: -40°C to 85°C

For additional specifications on this product, please refer to the Data Sheet.