H3C WA6600 Series Access Points

Hardware Information and Specifications

New H3C Technologies Co., Ltd.
http://www.h3c.com

Document version: 6W102-20251203

Preface

H3C WA6600 Series Access Points Hardware Information and Specifications covers the chassis views, models, technical specifications, and LEDs of the WA6600 APs.

This preface includes the following topics about the documentation:

- Audience.
- Conventions.
- Documentation feedback.

Audience

This documentation is intended for:

- Network planners.
- Field technical support and servicing engineers.
- Network administrators working with the WA6600 Series Access Points.

Conventions

The following information describes the conventions used in the documentation.

Command conventions

Convention	Description
Boldface	**Bold** text represents commands and keywords that you enter literally as shown.
Italic	*Italic* text represents arguments that you replace with actual values.
[ ]	Square brackets enclose syntax choices (keywords or arguments) that are optional.
{ x | y | ... }	Braces enclose a set of required syntax choices separated by vertical bars, from which you select one.
[x | y | ...]	Square brackets enclose a set of optional syntax choices separated by vertical bars, from which you select one or none.
{ x | y | ... } *	Asterisk marked braces enclose a set of required syntax choices separated by vertical bars, from which you select a minimum of one.
[x | y | ...] *	Asterisk marked square brackets enclose optional syntax choices separated by vertical bars, from which you select one choice, multiple choices, or none.
&<1-n>	The argument or keyword and argument combination before the ampersand (&) sign can be entered 1 to n times.
#	A line that starts with a pound (#) sign is comments.

GUI conventions

Convention	Description
Boldface	Window names, button names, field names, and menu items are in Boldface. For example, the **New User** window opens; click **OK**.
>	Multi-level menus are separated by angle brackets. For example, **File** > **Create** > **Folder**.

Symbols

Convention	Description
WARNING!	An alert that calls attention to important information that if not understood or followed can result in personal injury.
CAUTION:	An alert that calls attention to important information that if not understood or followed can result in data loss, data corruption, or damage to hardware or software.
IMPORTANT:	An alert that calls attention to essential information.
NOTE:	An alert that contains additional or supplementary information.
TIP:	An alert that provides helpful information.

Network topology icons

Convention	Description
	Represents a generic network device, such as a router, switch, or firewall.
	Represents a routing-capable device, such as a router or Layer 3 switch.
	Represents a generic switch, such as a Layer 2 or Layer 3 switch, or a router that supports Layer 2 forwarding and other Layer 2 features.
	Represents an access controller, a unified wired-WLAN module, or the access controller engine on a unified wired-WLAN switch.
	Represents an access point.
	Represents a wireless terminator unit.
	Represents a wireless terminator.
	Represents a mesh access point.
	Represents omnidirectional signals.
	Represents directional signals.
	Represents a security product, such as a firewall, UTM, multiservice security gateway, or load balancing device.
	Represents a security module, such as a firewall, load balancing, NetStream, SSL VPN, IPS, or ACG module.

Examples provided in this document

Examples in this document might use devices that differ from your device in hardware model, configuration, or software version. It is normal that the port numbers, sample output, screenshots, and other information in the examples differ from what you have on your device.

Documentation feedback

You can e-mail your comments about product documentation to info@h3c.com.

We appreciate your comments.

Contents

Product overview

The WA6600 AP series includes the following models:

Table 1 WA6600 AP series

Product code	Product model	Remarks
EWP-WA6622-FIT	WA6622	Indoor AP
EWP-WA6628-FIT	WA6628	
EWP-WA6636-FIT	WA6636	
EWP-WA6638-FIT	WA6638	
EWP-WA6628X-FIT	WA6628X	Rail transit AP
EWP-WA6628E-T	WA6628E-T	
EWP-WA6620X-FIT	WA6620X	Outdoor AP
EWP-WA6630X-FIT	WA6630X	

Chassis views and technical specifications

WA6620X

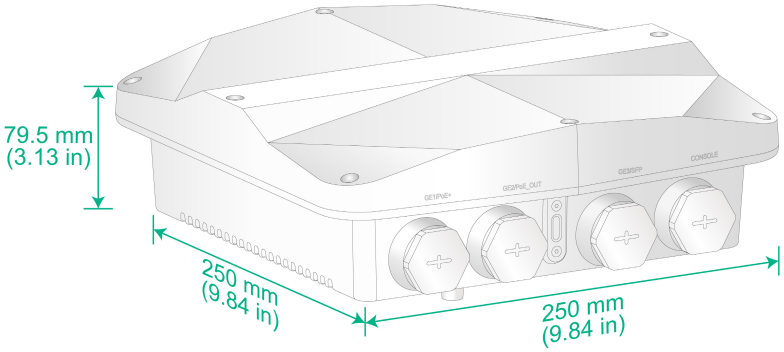
Chassis view

Chassis view

Figure 1 Chassis view

Chassis dimensions

Figure 2 Chassis dimensions

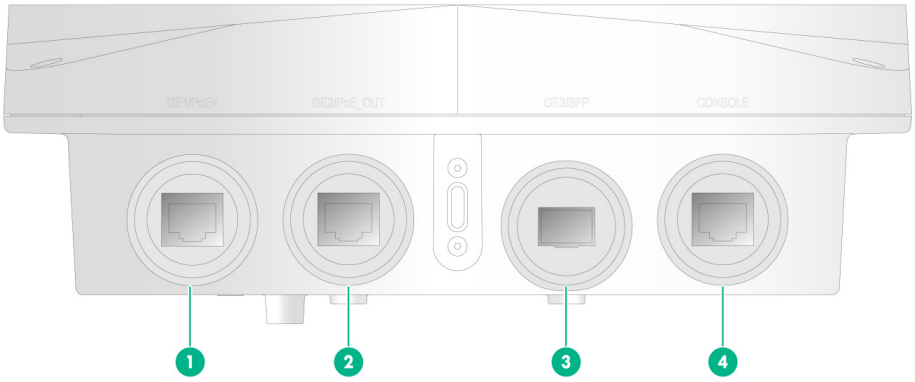


Ports

The AP has the following ports:

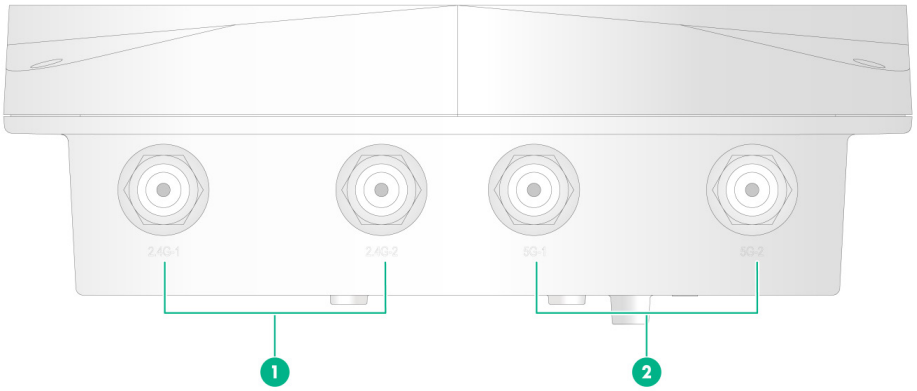
- One GE1/PoE+ port.
- One GE2/PoE_OUT port.
- One GE3/SFP port.
- One console port.
- Two 2.4G antenna ports.
- Two 5G antenna ports.

Figure 3 Ports on the AP



(1) and (2) GE/PoE+ ports	(3) GE3/SFP port	(4) Console port

Figure 4 Rear view



(1) 2.4G antenna ports (2.4G-1/2)	(2) 5G antenna ports (5G-1/2)

Technical specifications

Table 2 Technical specifications

Item	Specification
Dimensions (H × W × D)	79.5 × 250 × 250 mm (3.13 × 9.84 × 9.84 in)
Weight	1.8 kg (3.97 lb)

Power consumption	• Standby: 5W
	• Operating:
	  ○ ≤ 31 W (PoE_OUT/USB included)
	  ○ ≤ 16 W (PoE_OUT/USB excluded)

Antennas	• External antenna
	• Built-in directional antenna:
	  ○ 2.4 GHz: 11 dBi gain
	  ○ 5 GHz: 11 dBi gain

IEEE standards	IEEE802.11a/b/g/n/ac/ax
Operating temperature	–40°C to +65°C (–40°F to +149°F)

Item	Specification
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	0% RH to 100% RH, noncondensing
Storage humidity	0% RH to 100% RH, noncondensing
Protection class	IP68
GE1/PoE+	100/1000M Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It can also receive PoE power from the uplink device. When the AP operates in fit mode, the port is represented by interface GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
GE2/PoE_OUT	100/1000M Ethernet copper port, used for connecting the AP to a downlink device. It can also supply power to a standard PD. When the AP operates in fit mode, the port is represented by interface GE1/0/2 in the MAP file and GigabitEthernet 2 for configuration on the AC.
GE3/SFP	1000M Ethernet fiber port, used for connecting the AP to an uplink device for Internet or MAN access. When the AP operates in fit mode, the port is represented by interface GE1/0/3 in the MAP file and GigabitEthernet 3 for configuration on the AC.
CONSOLE	For device configuration and management by the maintenance engineers.
2.4G-1/2 and 5G-1/2	Connect RF cables.
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (2)."

WA6622

Chassis view

Chassis view

Figure 5 Chassis view

Chassis dimensions

Figure 6 Chassis dimensions

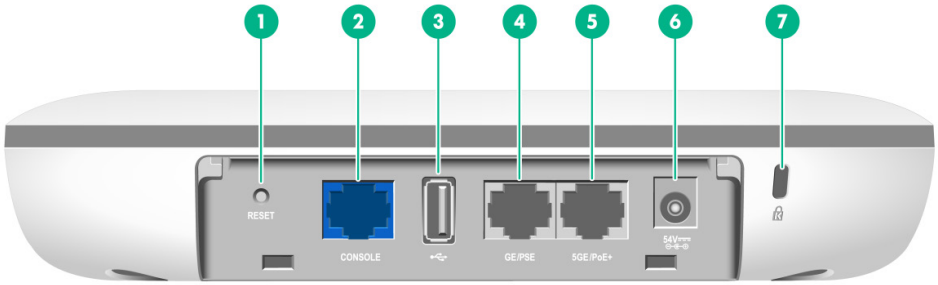
Ports

The AP provides the following ports:

- One console port
- One USB port
- One GE/PSE port
- One 5GE/PoE+ port
- One power port

The AP also has a reset button and a security slot. The security slot is 7 × 3 mm (0.28 × 0.12 in) in size.

Figure 7 Ports on the AP



(1) Reset button	(2) Console port	(3) USB port
(4) GE/PSE port	(5) 5GE/PoE+ port	
(6) Power port	(7) Security slot	

Technical specifications

Table 3 Technical specifications

Item	Specification
Dimensions (H × W × D) (without the mounting bracket)	45 × 215 × 215 mm (1.77 × 8.46 × 8.46 in)

Item	Specification
Weight	940 g (33.16 oz)
Antenna	Built-in directional antenna: ○ 2.4 GHz: 5 dBi gain ○ 5 GHz: 5 dBi gain
Power consumption	• Standby: 4.86W • Operating: ○ ≤ 40 W (PoE_OUT/USB included) ○ ≤ 22.5 W (PoE_OUT/USB excluded)
Protocol	• 802.11b/g/a/n/ac/ax • 802.3at/af
Operating temperature	0°C to +50°C (32°F to 122°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	5% RH to 95% RH, noncondensing
Storage humidity	5% RH to 95% RH, noncondensing
Protection class	IP42
Console port	Used for device configuration and management only.
USB port	USB 2.0
GE/PSE	10/100/1000M Ethernet copper port, used for connecting a downlink device. It can also supply PoE power to the downlink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
5GE/PoE+	100/1000M/2.5G/5G Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It can also receive PoE+ power from the uplink device. It is represented by interface number SGE1/0/1 in the MAP file and smartrate-ethernet 1 for configuration on the AC.
Power port (54 V)	Used for receiving +54 VDC power from the local power source.
Reset button	The function of the reset button varies by duration in which it is pressed. For more information, see "LED description for the reset button."
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (2)"

WA6628

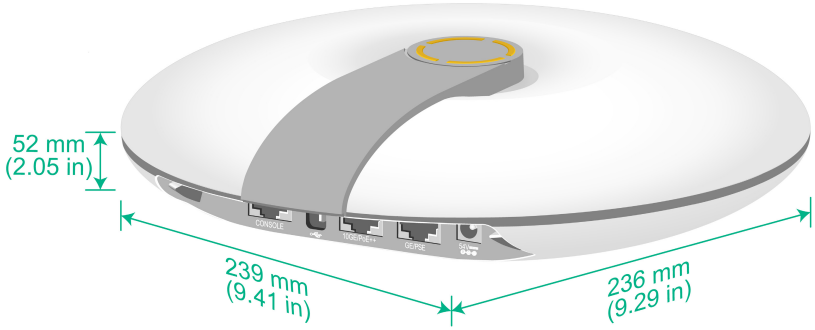
Chassis view

Chassis view

Figure 8 Chassis view

Chassis dimensions

Figure 9 Chassis dimensions



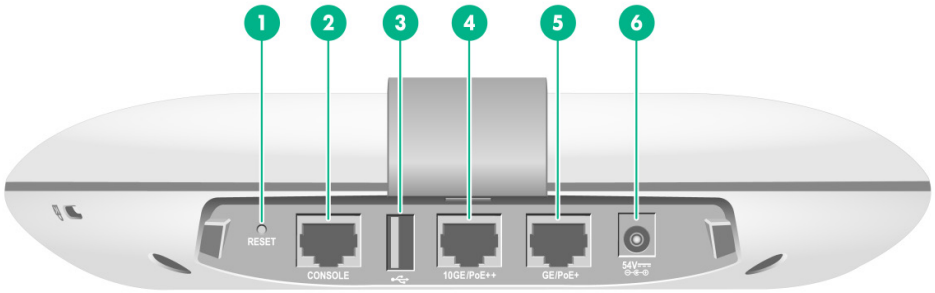
Ports

The AP provides the following ports:

- One USB port
- One console port
- One GE/PoE+ port
- One 10GE/PoE++ port
- One power port

The AP also has a reset button and a security slot. The security slot is 7 × 3 mm (0.28 × 0.12 in) in size.

Figure 10 Ports on the AP



(1) Reset button	(2) Console port	(3) USB port
(4) 10GE/PoE++ port	(5) GE/PoE+ port	
(6) Power port		

Technical specifications

Table 4 Technical specifications

Item	Specification
Dimensions (H × W × D) (without the mounting bracket)	52 × 236 × 239 mm (2.05 × 9.29 × 9.29 in)
Weight	1280 g (45.15 oz)

Power consumption	• Standby: 6.75 W
	• Operating:
	  ○ ≤ 26.22 W, with a USB device attached
	  ○ ≤ 28.72 W, without a USB device attached

Antenna	Built-in directional antenna: • 2.4 GHz: 3 dBi gain • 5 GHz: 4 dBi gain
Protocol and features	• IEEE802.11a/b/g/n/ac/ax • Three radios
Operating temperature	0°C to +50°C (32°F to 122°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	5% RH to 95% RH, noncondensing
Storage humidity	5% RH to 95% RH, noncondensing
Protection class	IP42
Console port	Used only for device configuration and management by technical support.
10GE/PoE++	100/1000M/2.5G/5G/10G Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It supports 802.3bt PoE++ and can receive PoE power from the uplink device. When the AP operates in fit AP mode, the port is represented by interface number XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
GE/PoE+	10/100/1000M Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It supports 802.3at PoE+ and can

Item	Specification
	receive PoE power from the uplink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
Power port (54 V)	Used for receiving +54 VDC power from the local power source.
USB port	USB 2.0
Reset button	The function of the reset button varies by duration in which it is pressed. For more information, see "LED description for the reset button"
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (2)"

WA6628X

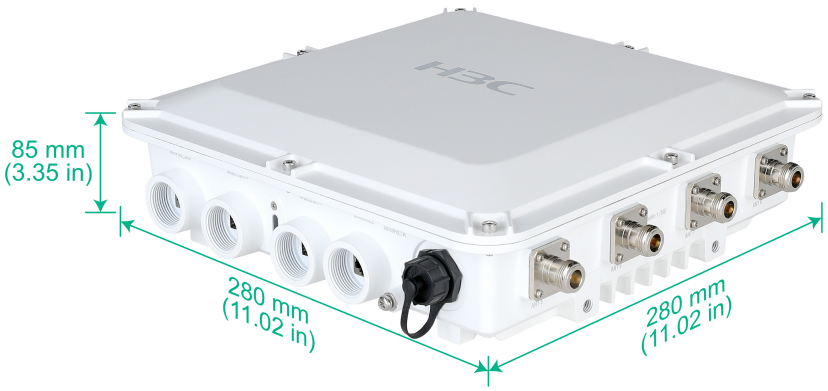
Chassis view

Chassis view

Figure 11 Chassis view

Chassis dimensions

Figure 12 Chassis dimensions



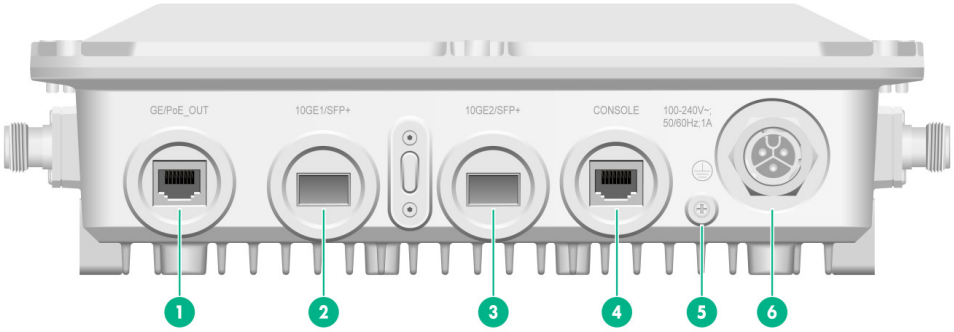
Ports

The AP provides the following ports:

- One USB port
- One console port
- One GE/PoE_OUT port
- Two 10GE/SFP+ ports
- One power port
- Four 2G antenna ports.
- Four 5G antenna ports.

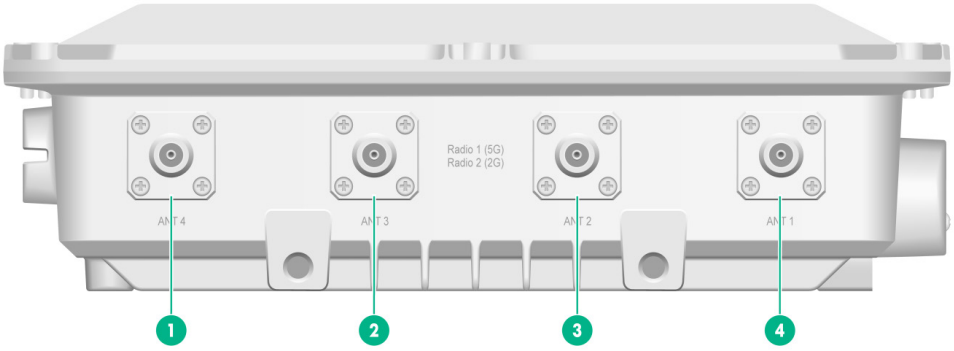
The AP also has a reset button and a security slot. The security slot is 7 × 3 mm (0.28 × 0.12 in) in size.

Figure 13 Ports on the AP



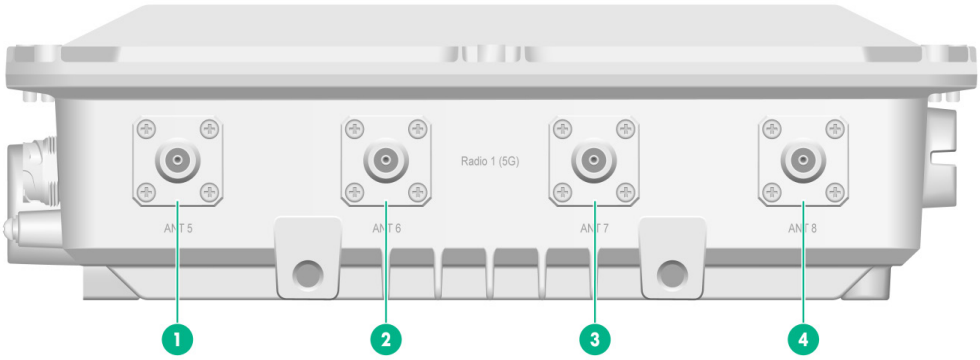
(1) GE/PoE_OUT port	(2) 10GE1/SFP+ port	(3) 10GE2/SFP+ port
(4) Console port	(5) Grounding screw	(6) Power receptacle

Figure 14 Left view



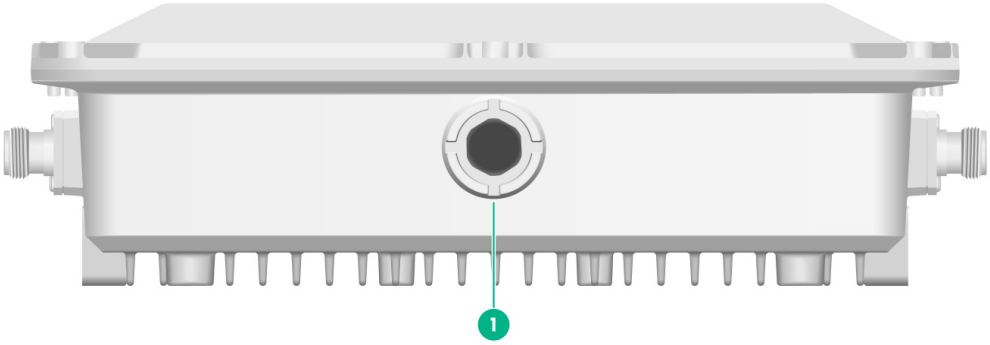
(1) to (4) Antenna ports ANT1/2/3/4 for radio 1 (5G) or radio 2 (2G)

Figure 15 Right view



(1) to (4) Antenna ports ANT5/6/7/8 for radio 1 (5G)

Figure 16 Rear view



(1) Vent valve

Technical specifications

Table 5 Technical specifications

Item	Specification
Dimensions (H × W × D)	280 × 280 × 85 mm (11.02 × 11.02 × 3.35 in)
Weight	3.2 kg (7.05 lb)
Antenna	External antenna

Power consumption	• Standby: 8W
	• Operating:
	  ○ ≤ 50 W (PoE_OUT included)
	  ○ ≤ 37 W (PoE_OUT excluded)

IEEE standards	IEEE802.11a/b/g/n/ac/ax
Operating temperature	–30°C to +55°C (–22°F to +131°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	0% RH to 100% RH, noncondensing
Storage humidity	0% RH to 100% RH, noncondensing

Item	Specification
Protection class	IP68
GE/PoE_OUT	10/100/1000M Ethernet copper port, used for connecting AP to an uplink device for Internet or MAN access. It is represented by interface GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
10GE1/SFP+	10GE fiber port, used for connecting the AP to an uplink device for Internet or MAN access. When the AP operates in fit AP mode, the port is represented by interface XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
10GE2SFP+	10GE fiber port, used for connecting the AP to an uplink device for Internet or MAN access. When the AP operates in fit AP mode, the port is represented by interface XGE1/0/2 in the MAP file and Ten-GigabitEthernet 2 for configuration on the AC.
CONSOLE	For device configuration and management by the maintenance engineers.
Power receptacle	Receives 100 to 264 VAC power supply.
Radio1 (5G) ANT1/2/3/4/5/6/7/8	Connects RF cables.
Radio2 (2G) ANT1/2/3/4	Connects RF cables.
Reset button	The function of the reset button varies by duration in which it is pressed. For more information, see "LED description for the reset button"
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (2)."

WA6628E-T

Chassis view

Chassis view

Figure 17 Chassis view

Chassis dimensions

Figure 18 Chassis dimensions

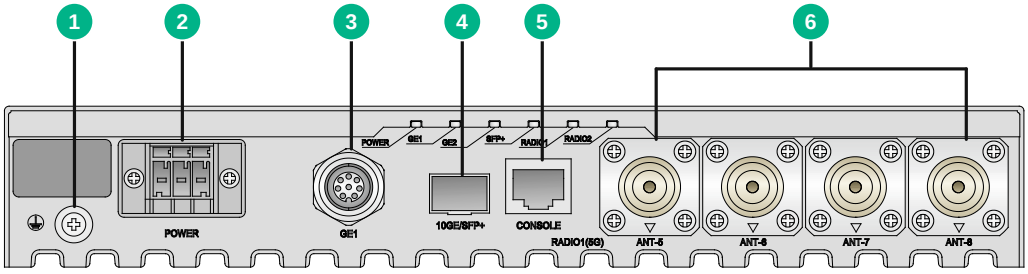
Ports and LEDs

Ports

The AP provides the following ports:

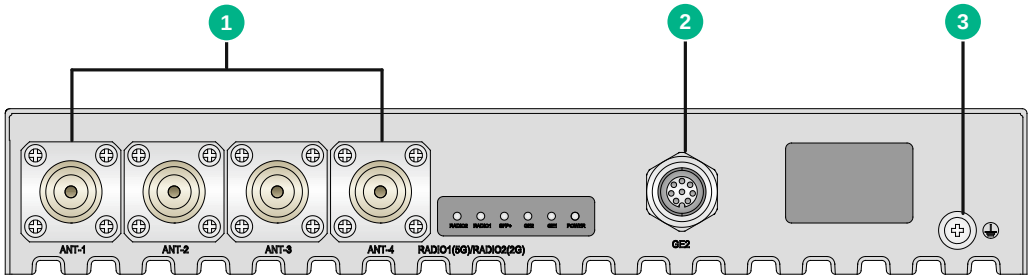
- One power port
- One 10 GE/SFP+ port
- Two GE ports
- One console port
- Four 5G antenna ports
- Four 2.4G/5G antenna ports

Figure 19 Ports on the AP



(1) Grounding screw	(2) Power port
(3) GE1 port	(4) 10 GE/SFP+ port
(5) Console port	(6) 5G antenna port

Figure 20 Ports on the rear panel of the AP



(1) 2.4G/5G antenna port	(2) GE2 port
(3) Grounding screw	

LEDs

Figure 21 Front view of the AP

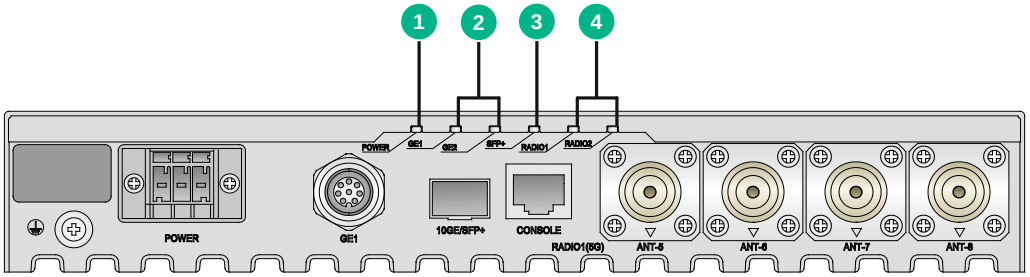


Figure 22 Rear view of the AP

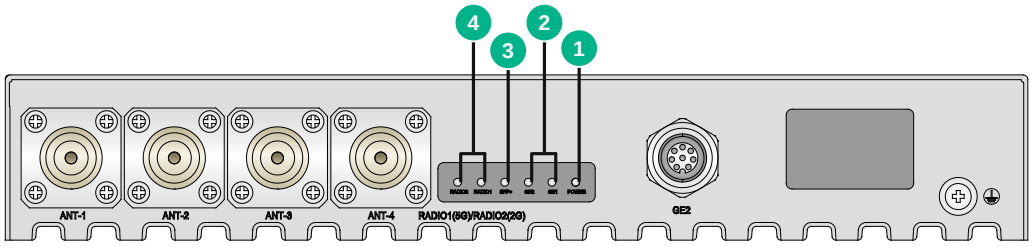
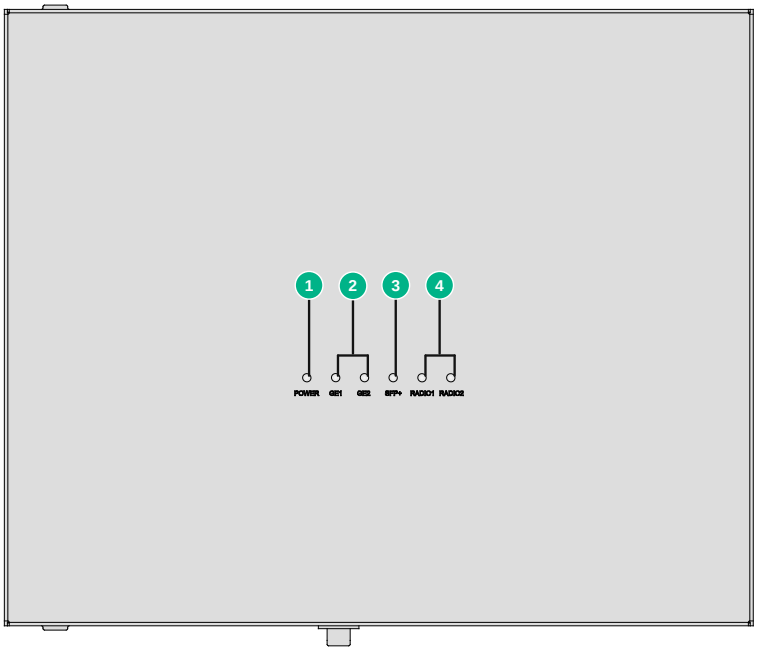


Figure 23 Top view of the AP



(1) Power LED	(2) Ethernet port LEDs
(3) 10GE/SFP+ port LED	(4) Radio LEDs

Technical specifications

Table 6 Technical specifications

Item	Specification
Dimensions (H × W × D)	40 × 260 × 210 mm (1.57 × 10.24 × 8.27 in)
Weight	2.4 kg (5.29 lb)
Antenna	External antenna
Power consumption	• Standby: 8W • Operating: ≤ 40 W
Protocols and standards	IEEE802.11a/b/g/n/ac/ax
Operating temperature	–30°C to +55°C (–22°F to +121°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	0% RH to 100% RH, noncondensing
Storage humidity	0% RH to 100% RH, noncondensing
Protection class	IP68
Console port	Used only for device configuration and management by technical support.
GE1/GE2	10/100/1000M Ethernet port with an M12 connector, used for connecting the AP to an uplink device for Internet or MAN access. It is represented by interface number GE1/0/1 or GE1/0/2 in the MAP file and GigabitEthernet 1 or GigabitEthernet 2 for configuration on the AC.
10GE/SFP+	10GE fiber port, used for connecting the AP to an uplink device for Internet or

Item	Specification
	MAN access. It is represented by interface number XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
5G antenna port	Used for connecting to a 5G antenna.
2.4G/5G antenna port	Used for connecting to a 2.4G/5G antenna.
Power port	Used for receiving power from the local power source.
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for multi-LED APs."

WA6630X

Chassis view

Chassis view

Figure 24 Chassis view

Chassis dimensions

Figure 25 Chassis dimensions

Ports

The AP provides only one port. You can connect the all-in-one cable provided with the AP to it. The all-in-one cable provides the following ports, with one port on each cable, in ascending order of the cable length:

- 10GE/PoE++ port
- GE1 port
- GE2/PSE port
- Console port

Port	Description
10GE/PoE++	100/1000M/2.5G/5G/10G Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It can also supply PoE power to the downlink device. When the AP operates in fit AP mode, the port is represented by interface number XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
GE1	10/100/1000M Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It can also supply PoE power to the downlink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
GE2/PSE	10/100/1000M Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It can also supply PoE power to the downlink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/2 in the MAP file and GigabitEthernet 2 for configuration on the AC.

Port	Description
Console port	Used by technical personnel only for device configuration and management.

Technical specifications

Table 7 Port and button descriptions

Item	Specification
Dimensions (H × W × D)	394 × 260 × 260 mm (15.51 × 10.24 × 10.24 in)
Weight	4 kg (8.82 lb)
Power consumption	• Standby: 10W • Operating: ≤ 48.6 W (PoE_OUT included)
Antenna	Built-in directional antenna: • 2.4 GHz: 5 dBi gain • 5 GHz: 4 dBi gain
IEEE standards	IEEE802.11a/b/g/n/ac/ax
Operating temperature	–30°C to +65°C (–22°F to +131°F)
Storage temperature	–40°C to +85°C (–40°F to +185°F)
Operating humidity	0% RH to 100% RH, noncondensing
Storage humidity	0% RH to 100% RH, noncondensing
Protection class	IP68
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for multi-LED APs."

WA6636

Chassis view

Chassis view

Figure 26 Chassis view

Chassis dimensions

Figure 27 Chassis dimensions

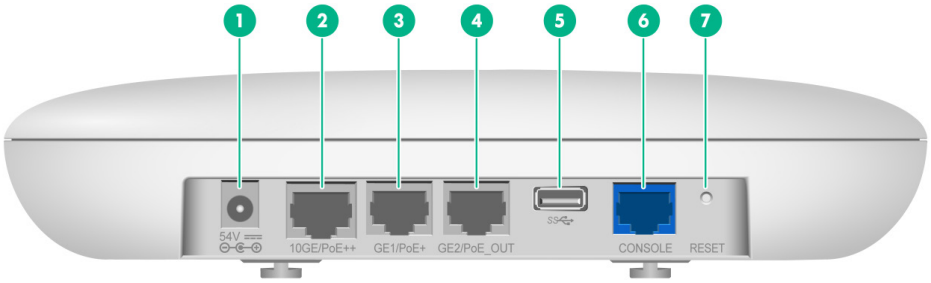
Ports

The AP provides the following ports:

- One console port
- One 10GE/PoE++ port
- Two GE/PoE+ port
- One power port
- One USB port

The AP also has a reset button and a security slot. The security slot is 7 × 3 mm (0.28 × 0.12 in) in size.

Figure 28 Ports on the AP



(1) Power port	(2) 10GE/PoE++ port	(3-4) GE/PoE+ port
(5) USB port	(6) Console port	(7) Reset button

Technical specifications

Table 8 Technical specifications

Item	Specification
Dimensions (H × W × D)	225 × 225 × 46 mm (8.86 × 8.86 × 1.81 in)
Weight	1050 g (37.04 oz)
Antenna	Built-in antenna: • 2.4 GHz: 3 dBi gain • 5 GHz: 3 dBi gain

Power consumption	• Standby: 8W
	• Operating:
	  ○ ≤ 40 W (PoE_OUT/USB included)
	  ○ ≤ 22.5 W (PoE_OUT/USB excluded)

Protocol	• 802.11b/g/a/n/ac/ax • 802.3af/at/bt
Operating temperature	0°C to +50°C (32°F to 122°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	5% RH to 95% RH, noncondensing
Storage humidity	0% RH to 95% RH, noncondensing
Protection class	IP42
Console port	Used by technical personnel only for device configuration and management.
10GE/PoE++	100/1000M/2.5G/5G/10G Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It supports 802.3bt PoE++ and can receive PoE power from the uplink device. When the AP operates in fit AP mode, the port is represented by interface number XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
GE1/PoE+	10/100/1000M Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It supports 802.3at PoE+ and can receive PoE power from the uplink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.

Item	Specification
GE2/PoE_OUT	10/100/1000M Ethernet copper port, used for connecting a downlink device. It can also supply PoE power to the downlink device. It is represented by interface number GE1/0/2 in the MAP file and GigabitEthernet 2 for configuration on the AC.
Power port (54 V)	Used for receiving +54 VDC power from a local power source.
USB port	USB 3.0
Reset button	The function of the reset button varies by duration in which it is pressed. For more information, see "LED description for the reset button."
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (1)."

WA6638

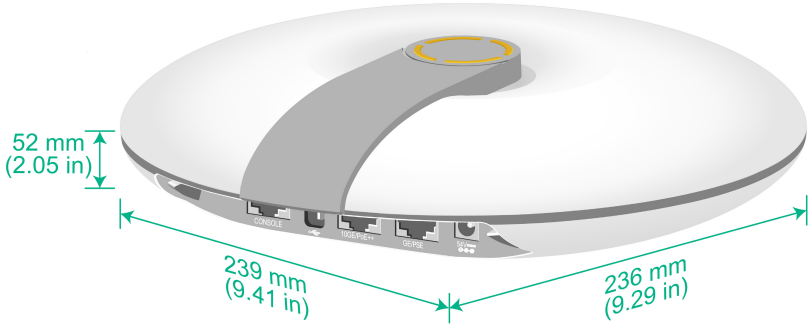
Chassis view

Chassis view

Figure 29 Chassis view

Chassis dimensions

Figure 30 Chassis dimensions



Ports

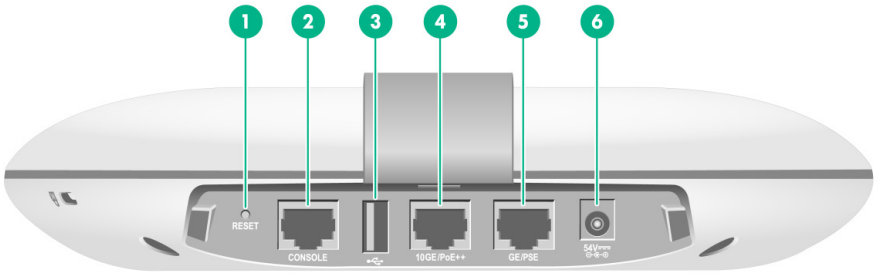
The AP provides the following ports:

- One console port

- One USB port
- One 10GE/PoE++ port
- One GE/PSE port
- One power port

The AP also has a reset button and a security slot. The security slot is 7 × 3 mm (0.28 × 0.12 in) in size.

Figure 31 Ports on the AP



(1) Reset button	(2) Console port
(3) USB port	(4) 10GE/PoE++
(5) GE/PSE	(6) Power port

Technical specifications

Table 9 Technical specifications

Item	Specification
Dimensions (H × W × D) (without the mounting bracket)	52 × 236 × 239 mm (2.05 × 9.29 × 9.29 in)
Weight	1280 g (45.15 oz)

Power consumption	• Standby: 6.48W
	• Operating:
	  ○ ≤ 29.75 W (PoE_OUT/USB included)
	  ○ ≤ 47.25 W (PoE_OUT/USB excluded)

Antenna	Built-in antenna: • 2.4 GHz: 3 dBi gain • 5 GHz: 4 dBi gain
Protocol and features	• IEEE802.11a/b/g/n/ac/ax • Three radios
Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	–40°C to +70°C (–40°F to +158°F)
Operating humidity	5% RH to 95% RH, noncondensing
Storage humidity	0% RH to 95% RH, noncondensing
Protection class	IP42
Console port	Used only for device configuration and management by technical support.

Item	Specification
USB port	USB 2.0
10GE/PoE++	100/1000M/2.5G/5G/10G Ethernet copper port, used for connecting the AP to an uplink device for Internet or MAN access. It supports 802.3bt PoE++ and can receive PoE power from the uplink device. When the AP operates in fit AP mode, the port is represented by interface number XGE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC.
GE/PSE	10/100/1000M Ethernet copper port, used for connecting a downlink device. It can also supply PoE power to the downlink device. When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC.
Power port (54 V)	Used for receiving +54 VDC power from the local power source.
Reset button	The function of the reset button varies by duration in which it is pressed. For more information, see "LED description for the reset button"
LEDs	Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs (2)."

About LEDs

The LED status includes the color and flashing frequency of the LEDs, which indicates the AP operating status.

APs can be classified into single-LED APs and multi-LED APs based on the LED quantity.

Figure 32 Single-LED AP (WA6636 as an example)

Figure 33 Multi-LED AP (WA6628E-T as an example)

Table 10 Wi-Fi 6 AP models

AP series		Models	Description
Wi-Fi 6	WA6600 AP series	WA6636, WA6638i	See "LED descriptions for single-LED APs (1)"
		WA6620, WA6620X, WA6620X-EG, WA6620XE-LI, WA6620X-LI, WA6620XM, WA6622, WA6622-EG, WA6624X, WA6628, WA6628X, WA6628XM, WA6630X, WA6638	See "LED descriptions for single-LED APs (2)."
		WA6628E-T	See "LED descriptions for multi-LED APs"

LED descriptions for single-LED APs (1)

The description for the status LED on an AP varies by AP operating mode. For information about the operating modes supported by an AP, see the release notes.

LED descriptions before modification

NOTE:

This section is applicable to the following APs:

WA6600 AP series in versions earlier than 2484.

Table 11 LED description (fit mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP has started up and registered with an AC, but is in standby state (does not have any associated clients).
	Flashing (once every two seconds)	The AP has started up, but has not registered to any AC.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Flashing (once per second)	The radios have associated clients.

Table 12 LED description (cloud mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP is in standby state, has connected to Cloudnet, but does not have any associated clients.
	Flashing (once per second)	The AP has connected to Cloudnet, and the radios have associated clients.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Steady on	The AP is in standby state, has not connected to Cloudnet, and does not have any associated clients.
	Flashing (once per second)	The AP has not connected to Cloudnet, but the radios have associated clients.

Table 13 LED description (anchor AC mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.

LED color	Status	Description
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP has started up and is in standby state, but does not have any associated clients.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Flashing (once per second)	The radios have associated clients.

LED descriptions after modification

NOTE:

This section is applicable to the following APs:

WA6600 AP series in 2484 and later versions.

Table 14 LED description

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP is in standby state and does not have any associated clients.
	Flashing (once every two seconds)	The AP has started up in fit mode, but has not registered to any AC.
	Flashing (once per second)	The radios have associated clients.
Blue	Flashing (twice per second)	The AP is upgrading the image.

LED descriptions for single-LED APs (2)

LED descriptions before modification

NOTE:

This section is applicable to the WA6600 AP series in versions earlier than 2484.

Table 15 LED description (fit mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has

LED color	Status	Description
		occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP has started up and registered with an AC, but is in standby state (does not have any associated clients).
	Flashing (once every two seconds)	The AP has started up, but has not registered to any AC.
	Flashing (once per second)	Only the 2.4G radio has associated clients.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Flashing (once per second)	Only the 5G radio has associated clients.
Alternating between green and blue	Flashing (once per second)	Both the 2.4G and 5G radios have associated clients.

Table 16 LED description (cloud mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP is in standby state, has connected to Cloudnet, but does not have any associated clients.
	Flashing (once per second)	The AP has connected to Cloudnet, and the radios have associated clients.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Steady on	The AP is in standby state, has not connected to Cloudnet, and does not have any associated clients.
	Flashing (once per second)	The AP has not connected to Cloudnet, but the radios have associated clients.

Table 17 LED description (anchor AC mode)

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP has started up and is in standby state, but does not have any associated clients.

LED color	Status	Description
	Flashing (once per second)	Only the 2.4G radio has associated clients.
	Flashing (twice per second)	The AP is upgrading the image.
Blue	Flashing (once per second)	Only the 5G radio has associated clients.
Alternating between green and blue	Flashing (once per second)	Both the 2.4G and 5G radios have associated clients.

LED descriptions after modification

NOTE:

This section is applicable to the WA6600 AP series in 2484 and later versions.

Table 18 LED description

LED color	Status	Description
N/A	Off	No power is present or the LED has been turned off from the CLI.
Yellow	Steady on	The AP is initializing, or an initialization exception has occurred.
	Flashing (twice per second)	The Ethernet ports are down and no mesh links are established.
Green	Steady on	The AP is in standby state and does not have any associated online clients.
	Flashing (once every two seconds)	The AP has started up in fit mode, but has not registered to any AC.
	Flashing (once per second)	The radios have associated clients.
Blue	Flashing (twice per second)	The AP is upgrading the image.

LED descriptions for multi-LED APs

The descriptions for the status LEDs on an AP vary by AP operating mode. For information about the operating modes supported by an AP, see the release notes.

LED descriptions before modification

NOTE:

This section is applicable to the WA6600 AP series in versions earlier than 2484, which includes the WA6628E-T AP.

Table 19 LED description

LED	Color	Status	Description
POWER	Yellow	Steady on	• The system software is starting. • An initialization exception has occurred.

LED	Color	Status	Description
		Flashing (twice per second)	The Ethernet ports are down and no mesh links are present.
	Green	Flashing (twice per second)	The AP is upgrading the image.
		Flashing (once per second)	The AP is operating in cloud mode and has connected to Cloudnet.
		Flashing (once every two seconds)	The AP has started up in fit mode, but has not registered to any AC.
		Steady on	The AP is in standby state. (The fit AP has registered with an AC.)
	Alternating between yellow and green	Flashing (once per second)	The AP is operating in cloud mode and has not connected to Cloudnet.
	N/A	Off	No power is present or the LED has been turned off from the CLI.
RADIO1	Green	Flashing (once per second)	Radio1 has associated clients.
	N/A	Off	Radio1 is disabled, or the LED has been turned off from the CLI.
RADIO2	Green	Flashing (once per second)	Radio2 has associated clients.
	Yellow	Flashing (once per second)	In tri-radio mode, radio3 has associated clients.
	Alternating between yellow and green	Flashing (once per second)	In tri-radio mode, both radio2 and radio3 have associated clients.
	N/A	Off	The radio is disabled, or the LED has been turned off from the CLI.
GE1/GE2	Yellow	Steady on	The port has negotiated to operate at 100/10 Mbps.
		Flashing	The port is operating correctly at 100/10 Mbps.
	Green	Steady on	The port has negotiated to operate at 1000 Mbps.
		Flashing	The port is operating correctly at 1000 Mbps.
	N/A	Off	No link is present on the port.
10GE/SFP+	Yellow	Steady on	The port has negotiated to operate at 1000 Mbps.
		Flashing	The port is operating correctly at 1000 Mbps.
	Green	Steady on	The port has negotiated to operate at 10 Gbps.
		Flashing	The port is operating correctly at 10 Gbps.
	N/A	Off	No link is present on the port.

LED descriptions after modification

NOTE:

This section is applicable to the WA6600 AP series in 2484 and later versions, which includes the WA6628E-T AP.

Table 20 LED description

LEDs	Color	Status	Description
POWER	Yellow	Steady on	• The system software is starting. • An initialization exception has occurred.
		Flashing (twice per second)	The Ethernet ports are down and no mesh links are present.
	Green	Flashing (twice per second)	The AP is upgrading the image.
		Flashing (once every two seconds)	The AP has started up in fit mode, but has not registered to any AC.
		Steady on	The AP is in standby state. (The fit AP has registered with an AC.)
	N/A	Off	No power is present or the LED has been turned off from the CLI.
RADIO1	Green	Flashing (once per second)	Radio1 has associated clients.
	N/A	Off	Radio is disabled, or the LED has been turned off from the CLI.
RADIO2	Green	Flashing (once per second)	Radio2 has associated clients.
	Yellow	Flashing (once per second)	In tri-radio mode, radio3 has associated clients.
	Alternating between yellow and green	Flashing (once per second)	In tri-radio mode, both radio2 and radio3 have associated clients.
	N/A	Off	The radio is disabled, or the LED has been turned off from the CLI.
GE1/GE2	Yellow	Steady on	The port has negotiated to operate at 100/10 Mbps.
		Flashing	The port is operating correctly at 100/10 Mbps.
	Green	Steady on	The port has negotiated to operate at 1000 Mbps.
		Flashing	The port is operating correctly at 1000 Mbps.
	N/A	Off	No link is present on the port.
10GE/SFP+	Yellow	Steady on	The port has negotiated to operate at 1000 Mbps.
		Flashing	The port is operating correctly at 1000 Mbps.
	Green	Steady on	The port has negotiated to operate at 10 Gbps.
		Flashing	The port is operating correctly at 10 Gbps.
	N/A	Off	No link is present on the port.

LED description for the reset button

Table 21 LED description for the reset button

Reset button	Press and hold duration (seconds)	LED color	LED status	Description
RESET	0 to 5	Green	Steady on	Reset the AP.
	5 to 20	Green	Flashing (twice per second)	Restore to the factory defaults.
	20 to 30	Yellow	Flashing (once every two seconds)	The AP is operating in fit mode.
			Flashing (twice per second)	The AP is operating in anchor AC mode.
			Flashing (four times per second)	The AP is operating in cloud mode.
	> 30	Yellow	Flashing (twice per second)	The AP is operating in anchor AC mode.
			Flashing (four times per second)	The AP is operating in cloud mode.
		Green	Flashing (four times per second)	The AP is switching from fit mode to cloud mode. Note: After you release the button, if the AP has switched from fit mode to cloud mode, it will restart for the new mode to take effect.

Transceiver modules

Views

An SFP transceiver module is required if you are to use the SFP fiber port. The AP supports only fibers with LC connectors.

Figure 34 SFP transceiver module

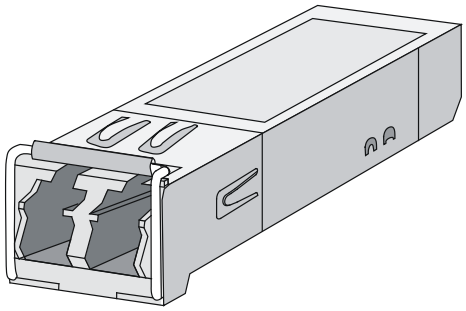
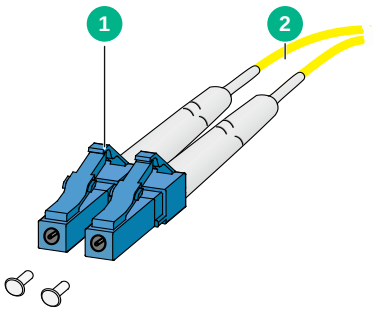


Figure 35 Optical fibers with LC connectors



(1) LC connector	(2) Optical fiber

Specifications

WA6620X

A transceiver module that has "**MM**" in its name supports multi-mode optical fibers. A transceiver module that has "**SM**" in its name supports single-mode optical fibers.

Table 22 SFP-GE-SX-MM850-A transceiver module specifications

Item	SFP-GE-SX-MM850-A
Central wavelength	850 nm
Max transmission distance	550 m (1804.46 ft)
Data rate	1250 Mbps
Connector type	Duplex LC

Item	SFP-GE-SX-MM850-A
Fiber mode	MMF
Fiber diameter	50 μm
Output optical power	–9.5 to 0 dBm
Receiver sensitivity	≤ –17 dBm
Light saturation	≤ –3 dBm

Table 23 SFP-GE-LX-SM1310-A transceiver module specifications

Item	SFP-GE-LX-SM1310-A
Central wavelength	1310 nm
Max transmission distance	10 km (6.21 miles)
Data rate	1250 Mbps
Connector type	Duplex LC
Fiber mode	SMF
Fiber diameter	9 μm
Output optical power	–9.5 to –3 dBm
Receiver sensitivity	≤ –20 dBm
Light saturation	≤ –3 dBm

Table 24 SFP-GE-LH40-SM1310 transceiver module specifications

Item	SFP-GE-LH40-SM1310
Central wavelength	1310 nm
Max transmission distance	40 km (24.86 miles)
Data rate	1250 Mbps
Connector type	Duplex LC
Fiber mode	SMF
Fiber diameter	9 μm
Output optical power	–2 to +5 dBm
Receiver sensitivity	≤ –22 dBm
Light saturation	≤ –3 dBm

Table 25 SFP-GE-LH40-SM1550 transceiver module specifications

Item	SFP-GE-LH40-SM1550
Central wavelength	1550 nm
Max transmission distance	40 km (24.86 miles)
Data rate	1250 Mbps
Connector type	Duplex LC
Fiber mode	SMF

Item	SFP-GE-LH40-SM1550
Fiber diameter	9 μm
Output optical power	–4 to +1 dBm
Receiver sensitivity	≤ –21 dBm
Light saturation	≤ –3 dBm

WA6628X

A transceiver module that has "**MM**" in its name supports multi-mode optical fibers. A transceiver module that has "**SM**" in its name supports single-mode optical fibers.

Table 26 Transceiver module specifications

Item	SFP-XG-CPRI-IR-SM1310	SFP-XG-CPRI-LR-SM1310
Central wavelength	1310 nm	1310 nm
Max transmission distance	1.4 km (4593.17 ft)	10 km (6.21 miles)
Data rate	1250 Mbps	1250 Mbps
Connector type	Duplex LC	Duplex LC
Fiber mode	SMF	SMF
Fiber diameter	9 μm	9 μm
Output optical power	–8.2 to +0.5 dBm	–8.2 to +0.5 dBm
Receiver sensitivity	≤ –14.4 dBm	≤ –14.4 dBm
Light saturation	≤ 0.5 dBm	≤ 0.5 dBm

WA6628E-T

Table 27 SFP-XG-CPRI-IR-SM1310 transceiver module specifications

Item	SFP-XG-CPRI-IR-SM1310
Central wavelength	1310 nm
Max transmission distance	1.4 km (0.87 miles)
Data rate	4920 to 10310 Mb/s
Connector type	LC connector
Fiber mode	SMF
Fiber diameter	9/125 μm
Output power	–8.2 to +0.5 dBm

Table 28 SFP-XG-CPRI-LR-SM1310 specifications

Item	SFP-XG-CPRI-LR-SM1310
Central wavelength	1310 nm

Item	SFP-XG-CPRI-LR-SM1310
Max transmission distance	10 km (6.21 miles)
Data rate	4920 to 10310 Mb/s
Connector type	LC connector
Fiber mode	SMF
Fiber diameter	9/125 µm
Output power	–8.2 to +0.5 dBm

Receive Sensitivity Values

Receive sensitivity is the minimum signal receive power at the antenna port required for correct wireless device operation. A lower receive sensitivity value indicates better receive performance of the wireless device.

WA6620X

Table 29 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-97
11 Mbps	-	-91
802.11a/g		
6 Mbps	-93	-95
24 Mbps	-87	-88
54 Mbps	-76	-78
802.11n HT20		
MCS0	-93	-95
MCS4	-84	-86
MCS7	-75	-76
802.11n HT40		
MCS0	-91	-92
MCS4	-82	-82
MCS7	-73	-74
802.11ac VHT20		
MCS0	-93	-
MCS4	-84	-
MCS7	-75	-
MCS8	-72	-
MCS9	-	-
802.11ac VHT40		
MCS0	-90	-
MCS4	-83	-
MCS7	-74	-
MCS8	-71	-
MCS9	-68	-

Radio	5GHz Radio	2.4GHz Radio
802.11ac VHT80		
MCS0	-88	-
MCS4	-80	-
MCS7	-76	-
MCS8	-76	-
MCS9	-75	-
802.11ac VHT160		
MCS0	-	-
MCS4	-	-
MCS7	-	-
MCS8	-	-
MCS9	-	-
802.11ax HE20		
MCS0	-93	-95
MCS4	-83	-85
MCS7	-75	-76
MCS8	-73	-73
MCS9	-70	-71
MCS10	-69	-68
MCS11	-64	-65
802.11ax HE40		
MCS0	-91	-92
MCS4	-81	-82
MCS7	-73	-78
MCS8	-71	-71
MCS9	-68	-68
MCS10	-65	-66
MCS11	-61	-63
802.11ax HE80		
MCS0	-88	-
MCS4	-80	-
MCS7	-78	-
MCS8	-77	-
MCS9	-77	-
MCS10	-76	-
MCS11	-75	-

Radio	5GHz Radio	2.4GHz Radio
802.11ax HE160		
MCS0	-	-
MCS4	-	-
MCS7	-	-
MCS8	-	-
MCS9	-	-
MCS10	-	-
MCS11	-	-

WA6622

Table 30 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-100
11 Mbps	-	-93
802.11a/g		
6 Mbps	-98	-96
24 Mbps	-90	-88
54 Mbps	-82	-80
802.11n HT20		
MCS0	-98	-96
MCS4	-87	-85
MCS7	-80	-77
802.11n HT40		
MCS0	-96	-93
MCS4	-84	-82
MCS7	-77	-74
802.11ac VHT20		
MCS0	-99	-
MCS4	-88	-
MCS7	-80	-
MCS8	-76	-
MCS9	-	-

Radio	5GHz Radio	2.4GHz Radio
802.11ac VHT40		
MCS0	-96	-
MCS4	-85	-
MCS7	-78	-
MCS8	-73	-
MCS9	-71	-
802.11ac VHT80		
MCS0	-93	-
MCS4	-81	-
MCS7	-74	-
MCS8	-69	-
MCS9	-68	-
802.11ax HE20		
MCS0	-99	-97
MCS4	-88	-86
MCS7	-82	-79
MCS8	-77	-74
MCS9	-76	-73
MCS10	-72	-69
MCS11	-70	-67
802.11ax HE40		
MCS0	-96	-94
MCS4	-86	-83
MCS7	-79	-76
MCS8	-74	-72
MCS9	-73	-70
MCS10	-70	-67
MCS11	-67	-64
802.11ax HE80		
MCS0	-93	-
MCS4	-83	-
MCS7	-73	-
MCS8	-72	-
MCS9	-70	-
MCS10	-66	-
MCS11	-63	-

WA6628

Table 31 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-99
11 Mbps	-	-91
802.11a/g		
6 Mbps	-93	-95
24 Mbps	-85	-87
54 Mbps	-76	-78
802.11n HT20		
MCS0	-93	-95
MCS4	-82	-83
MCS7	-74	-76
802.11n HT40		
MCS0	-90	-91
MCS4	-79	-80
MCS7	-72	-73
802.11ac VHT20		
MCS0	-94	-
MCS4	-83	-
MCS7	-76	-
MCS8	-72	-
802.11ac VHT40		
MCS0	-91	-
MCS4	-80	-
MCS7	-73	-
MCS8	-69	-
MCS9	-68	-
802.11ac VHT80		
MCS0	-86	-
MCS4	-76	-
MCS7	-69	-

Radio	5GHz Radio	2.4GHz Radio
MCS8	-65	-
MCS9	-63	-
802.11ax HE20		
MCS0	-92	-94
MCS4	-83	-86
MCS7	-75	-78
MCS8	-72	-75
MCS9	-70	-73
MCS10	-66	-69
MCS11	-64	-67
802.11ax HE40		
MCS0	-88	-91
MCS4	-80	-83
MCS7	-72	-75
MCS8	-69	-71
MCS9	-67	-70
MCS10	-63	-66
MCS11	-61	-63
802.11ax HE80		
MCS0	-85	-
MCS4	-77	-
MCS7	-70	-
MCS8	-66	-
MCS9	-64	-
MCS10	-61	-
MCS11	-59	-

WA6628X & WA6628E-T

Table 32 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-98
11 Mbps	-	-90

Radio	5GHz Radio	2.4GHz Radio
802.11a/g		
6 Mbps	-91	-93
24 Mbps	-83	-86
54 Mbps	-74	-77
802.11n HT20		
MCS0	-92	-93
MCS4	-82	-83
MCS7	-74	-76
802.11n HT40		
MCS0	-90	-90
MCS4	-79	-79
MCS7	-72	-72
802.11ac VHT20		
MCS0	-91	-
MCS4	-81	-
MCS7	-74	-
MCS8	-70	-
802.11ac VHT40		
MCS0	-89	-
MCS4	-79	-
MCS7	-71	-
MCS8	-67	-
MCS9	-65	-
802.11ac VHT80		
MCS0	-86	-
MCS4	-76	-
MCS7	-69	-
MCS8	-65	-
MCS9	-62	-
802.11ax HE20		
MCS0	-92	-93
MCS4	-83	-84
MCS7	-74	-75
MCS8	-72	-73
MCS9	-70	-71
MCS10	-65	-67

Radio	5GHz Radio	2.4GHz Radio
MCS11	-62	-64
802.11ax HE40		
MCS0	-89	-90
MCS4	-80	-81
MCS7	-71	-72
MCS8	-68	-70
MCS9	-67	-69
MCS10	-62	-64
MCS11	-60	-61
802.11ax HE80		
MCS0	-86	-
MCS4	-77	-
MCS7	-70	-
MCS8	-65	-
MCS9	-64	-
MCS10	-61	-
MCS11	-58	-

WA6636

Table 33 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-100
11 Mbps	-	-92
802.11a/g		
6 Mbps	-93	-95
24 Mbps	-85	-87
54 Mbps	-76	-78
802.11n HT20		
MCS0	-93	-95
MCS4	-82	-84
MCS7	-74	-77
802.11n HT40		

Radio	5GHz Radio	2.4GHz Radio
MCS0	-90	-91
MCS4	-79	-80
MCS7	-72	-73
802.11ac VHT20		
MCS0	-94	-
MCS4	-83	-
MCS7	-76	-
MCS8	-72	-
802.11ac VHT40		
MCS0	-91	-
MCS4	-80	-
MCS7	-73	-
MCS8	-69	-
MCS9	-68	-
802.11ac VHT80		
MCS0	-86	-
MCS4	-76	-
MCS7	-69	-
MCS8	-65	-
MCS9	-63	-
802.11ax HE20		
MCS0	-92	-94
MCS4	-83	-86
MCS7	-75	-78
MCS8	-72	-75
MCS9	-70	-73
MCS10	-66	-69
MCS11	-64	-67
802.11ax HE40		
MCS0	-88	-91
MCS4	-80	-83
MCS7	-72	-75
MCS8	-69	-71
MCS9	-67	-70
MCS10	-63	-66
MCS11	-61	-63

Radio	5GHz Radio	2.4GHz Radio
802.11ax HE80		
MCS0	-85	-
MCS4	-77	-
MCS7	-70	-
MCS8	-66	-
MCS9	-64	-
MCS10	-61	-
MCS11	-59	-

WA6638

Table 34 Receive Sensitivity Values

Radio	5GHz Radio	2.4GHz Radio
	Rx sensitivity (dBm) NSS1	Rx sensitivity (dBm) NSS1
802.11/11b		
1 Mbps	-	-99
11 Mbps	-	-91
802.11a/g		
6 Mbps	-93	-95
24 Mbps	-85	-87
54 Mbps	-76	-78
802.11n HT20		
MCS0	-93	-95
MCS4	-82	-83
MCS7	-74	-76
802.11n HT40		
MCS0	-90	-91
MCS4	-79	-80
MCS7	-72	-73
802.11ac VHT20		
MCS0	-94	-
MCS4	-83	-
MCS7	-76	-
MCS8	-72	-
802.11ac VHT40		

Radio	5GHz Radio	2.4GHz Radio
MCS0	-91	-
MCS4	-80	-
MCS7	-73	-
MCS8	-69	-
MCS9	-68	-
802.11ac VHT80		
MCS0	-86	-
MCS4	-76	-
MCS7	-69	-
MCS8	-65	-
MCS9	-63	-
802.11ax HE20		
MCS0	-92	-94
MCS4	-83	-86
MCS7	-75	-78
MCS8	-72	-75
MCS9	-70	-73
MCS10	-66	-69
MCS11	-64	-67
802.11ax HE40		
MCS0	-88	-91
MCS4	-80	-83
MCS7	-72	-75
MCS8	-69	-71
MCS9	-67	-70
MCS10	-63	-66
MCS11	-61	-63
802.11ax HE80		
MCS0	-85	-
MCS4	-77	-
MCS7	-70	-
MCS8	-66	-
MCS9	-64	-
MCS10	-61	-
MCS11	-59	-