

Read this document before installing and using your product AOS-W Instant Access Points (OAW-IAPs). Products covered in this supplement are listed in [Table 1](#).

**Table 1** *Supported Products*

Part Number	Description
OAW-IAP92	Alcatel-Lucent OAW-IAP92 Wireless Instant Access Point, 802.11n, 2x2:2, dual-band, single radio, antenna connectors. Unrestricted Regulatory Domain. <b>NOTE:</b> These products should be considered as 'Rest of World' products and must not be used for deployments in the United States, Japan, or Israel.
OAW-IAP92-US/JP	Alcatel-Lucent OAW-IAP92 Wireless Instant Access Point, 802.11n, 2x2:2, dual-band, single radio, antenna connectors. Restricted Regulatory Domain - US/JP.
OAW-IAP104	Alcatel-Lucent OAW-IAP104 Wireless Instant Access Point, 802.11n, 2x2:2, dual radio, antenna connectors. Unrestricted Regulatory Domain. <b>NOTE:</b> These products should be considered as 'Rest of World' products and must not be used for deployments in the United States, Japan, or Israel.
OAW-IAP104-US/JP	Alcatel-Lucent OAW-IAP104 Wireless Instant Access Point, 802.11n, 2x2:2, dual radio, antenna connectors. Restricted Regulatory Domain - US/JP.
OAW-IAP134	Alcatel-Lucent OAW-IAP134 Wireless Instant Access Point, 802.11n, 3x3:3, dual radio, antenna connectors. Unrestricted Regulatory Domain. <b>NOTE:</b> These products should be considered as 'Rest of World' products and must not be used for deployments in the United States, Japan, or Israel.
OAW-IAP134-US/JP	Alcatel-Lucent OAW-IAP134 Wireless Instant Access Point, 802.11n, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - US/JP.
OAW-IAP175P	Alcatel-Lucent OAW-IAP175P Wireless Instant Outdoor Access Point, 802.11n, 2x2:2, dual radio, 320mW, POE.
OAW-IAP175P-US/JP	Alcatel-Lucent OAW-IAP175P Wireless Instant Outdoor Access Point, 802.11n, 2x2:2, dual radio, 320mW, POE. Restricted Regulatory Domain -US/JP
OAW-IAP175AC	Alcatel-Lucent OAW-IAP175AC Wireless Instant Outdoor Access Point, 802.11n, 2x2:2, dual radio, 320mW, AC powered (with PSE).
OAW-IAP175AC-US/JP	Alcatel-Lucent OAW-IAP175AC Wireless Instant Outdoor Access Point, 802.11n, 2x2:2, dual radio, 320mW, AC powered (with PSE). Restricted Regulatory Domain - US/JP.
OAW-RAP108	Alcatel-Lucent OAW-RAP108 Wireless Instant Access Point, 802.11n, 2x2:2, dual radio, antenna connectors. These products should be considered as 'Rest of World' products and must not be used for deployments in the United States, Japan, or Israel.
OAW-RAP108-US/JP	Alcatel-Lucent OAW-RAP108 Wireless Instant Access Point, 802.11n, 2x2:2, dual radio, antenna connectors. Restricted Regulatory Domain - US/JP.

**Table 1 Supported Products (Continued)**

Part Number	Description
OAW-IAP224-RW	Alcatel-Lucent OAW-IAP224 Wireless Instant Access Point, 802.11ac, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - Rest of World (includes Japan and Israel, excludes United States)
OAW-IAP224-US	Alcatel-Lucent OAW-IAP224 Wireless Instant Access Point, 802.11ac, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - US
OAW-IAP114-RW	Alcatel-Lucent OAW-IAP114 Wireless Instant Access Point, 802.11n, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - Rest of World (includes Japan and Israel, excludes United States)
OAW-IAP114-US	Alcatel-Lucent OAW-IAP114 Wireless Instant Access Point, 802.11n, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - US
OAW-IAP274-RW	Alcatel-Lucent OAW-IAP274 Wireless Instant Access Point, Outdoor, 802.11ac, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - Rest of World (includes Japan and Israel, excludes United States)
OAW-IAP274-US	Alcatel-Lucent OAW-IAP274 Wireless Instant Access Point, Outdoor, 802.11ac, 3x3:3, dual radio, antenna connectors. Restricted Regulatory Domain - US.



For the latest information and documentation related to this product, go to <https://service.esd.alcatel-lucent.com>.

This device must be installed and used in strict accordance with the manufacturer's instructions. This product is suitable for installation in plenum spaces (air handling). Only power adapters approved by the manufacturer may be used. For replacement, contact your supplier or distributor.

Installation of this product must comply with local regulations and codes. When this product is used with an external antenna/s, please refer to the installation documentation provided for the antenna/s. Changes or modifications to the device not approved by the manufacturer of the product could void the user's authority to operate the equipment and will void the warranty of the product. No user serviceable parts; all repairs and service must be handled by a qualified service center.

All products using external antennas must be professionally installed, and the transmit power of the system must be adjusted by the professional installer/s to ensure that the system's EIRP (Equivalent Isotropically Radiated Power) is in compliance with the limit specified by the regulatory authority of the country of deployment. During deployment of the system and its initial setup, professional installer must ensure that the allowed EIRP limit is not exceeded (in the Country of exploitation of this equipment). To achieve this, the professional installer must use the approved/recommended antennas by the manufacturer (<http://www.alcatel-lucent.com/enterprise>). The professional installer must enter the antenna gain in the AOS-W Instant user interface (UI), using the following steps:

1. Log in to the Instant UI.
2. Navigate to the **Access Point** tab. Select the required access point and then click **edit**.
3. In the **Edit Access Point** window, select **External Antenna** to configure the antenna gain value. This option is available only for access points (OAW-IAP134/92) with external antenna support.
4. Enter the antenna gain values (dBm) for 2.4GHz and 5GHz bands.

Additional attenuation between the device and antenna may have to be measured or calculated.

The following formula can be used to calculate the EIRP limit related RF power based on selected antennas (antenna gain) and feeder (Coaxial Cable loss): **EIRP = Tx RF Power (dBm) +GA (dB) - FL (dB)**

**Table 2** *Formula Variable Definitions*

Parameter	Description
EIRP	Limit specific for each country of deployment
Tx RF Power	RF power measured at RF connector of the unit
GA	Antenna gain
FL	Feeder loss (including the connectors' loss)

For example, the maximum gain that can be configured on an OAW-IAP134 with AP-ANT-1F dual-band and omnidirectional antenna is as follows:

**Table 3** *Maximum Antenna Gains*

Frequency Band	Gain (dBi)
2.4-2.5 GHz	2.0 dBi
4.9-5.875 GHz	5.0 dBi



For information on antenna gain recommended by the manufacturer and for a full list of antennas approved/recommended by the manufacturer, see <https://service.esd.alcatel-lucent.com>.

## Contacting Alcatel-Lucent

Web Site Support	
Main Site	<a href="http://www.alcatel-lucent.com/enterprise">http://www.alcatel-lucent.com/enterprise</a>
Support Site	<a href="https://service.esd.alcatel-lucent.com">https://service.esd.alcatel-lucent.com</a>
Support Email	<a href="mailto:esd.support@alcatel-lucent.com">esd.support@alcatel-lucent.com</a>

Telephone Support	
North America	1-800-995-2696
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Asia Pacific	+65 6240 8484
Worldwide	1-818-878-4507

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