



## Hardware Features

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This chapter describes the hardware features of Cisco Catalyst 9164 Series Wi-Fi 6E Access Point and contains the following sections:

- [Access Point Views, Ports, and Connectors, on page 1](#)
- [CW9164I \(Internal Antenna\) Radiation Patterns, on page 3](#)

### Access Point Views, Ports, and Connectors

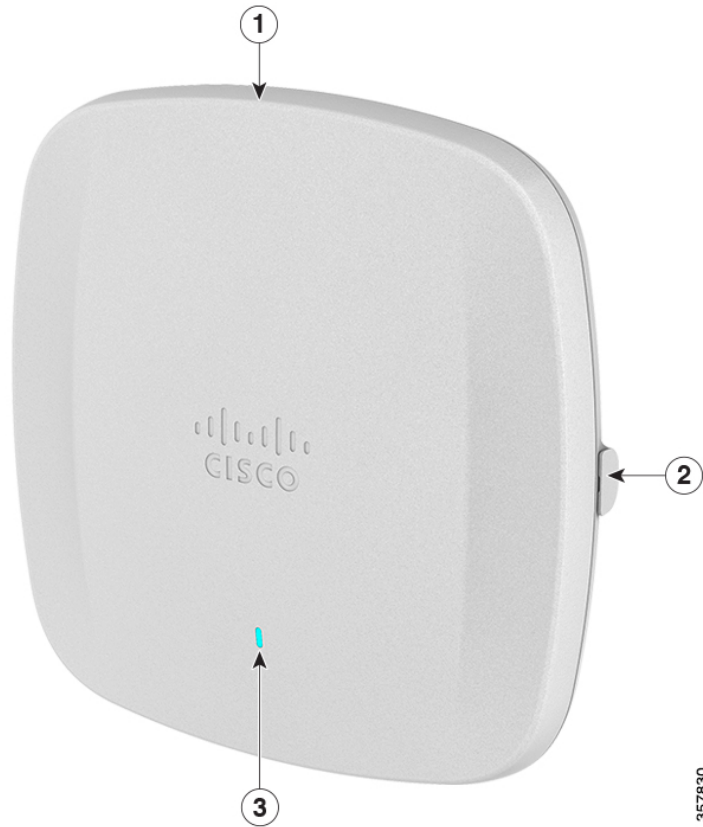
Cisco Catalyst 9164 Series Wi-Fi 6E Access Point has multiple options that you can use to power the AP. For information about connectors and ports for the AP models, see [Connectors and Ports on the AP, on page 1](#).

### Connectors and Ports on the AP

The following figures show the available ports on the AP:

**CW9164I Face View**

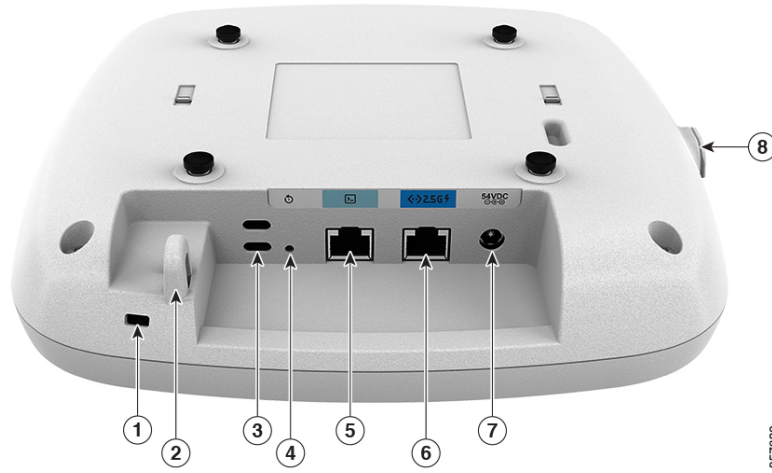
*Figure 1: CW9164I Face View*



1	Location of the ports and connectors on the head of the AP.
2	USB 2.0 port
3	Status LED For information on the LEDs status, see <a href="#">LED Status Indications</a> .

**CW9164I Top View**

*Figure 2: CW9164I Top View with Connectors and Ports*



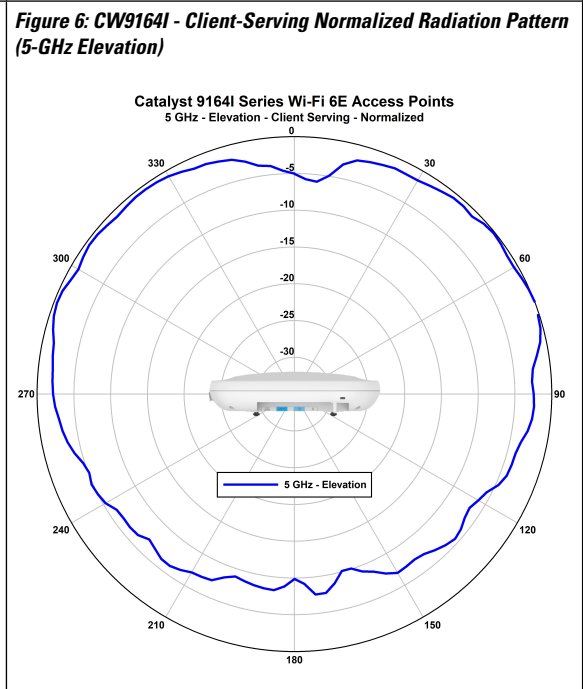
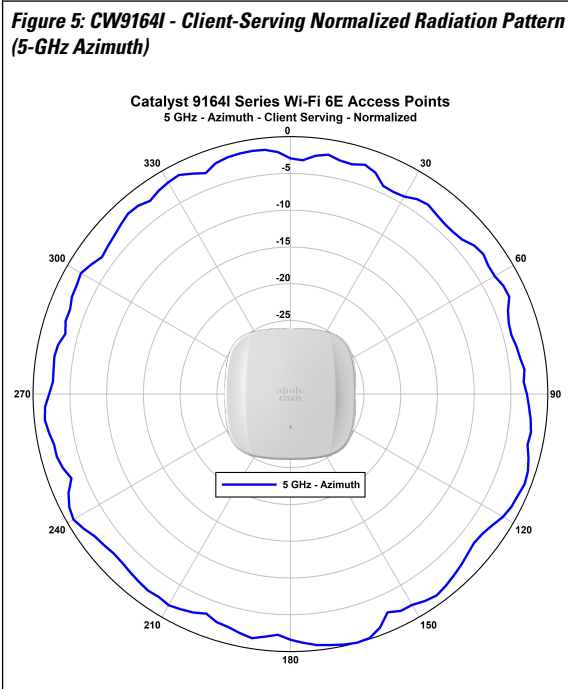
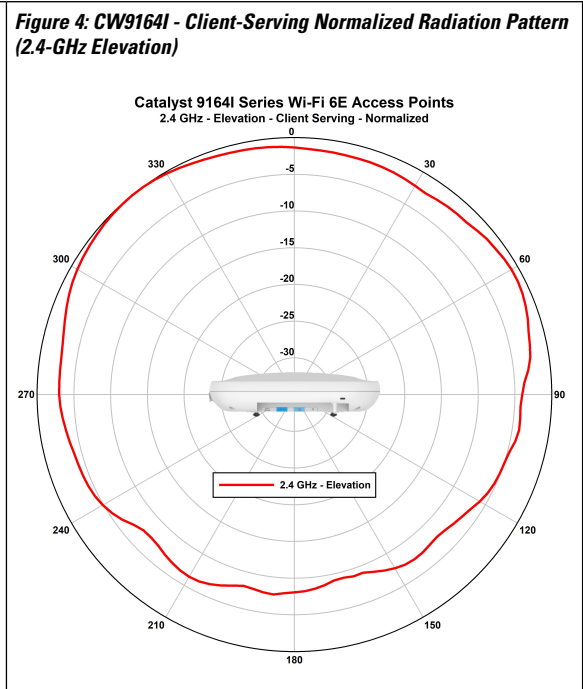
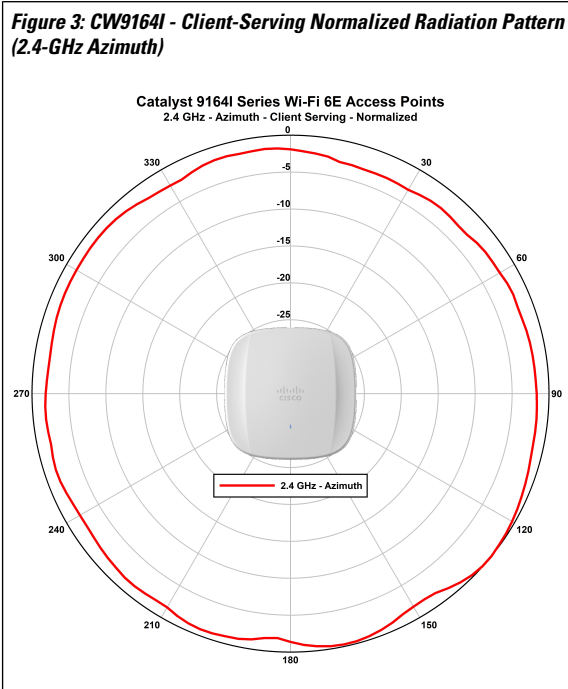
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1	Kensington lock slot	5	RJ-45 console port
2	Security hasp for padlocking AP to mounting bracket	6	2.5GbE port
3	Environment Sensor vents	7	DC 54V power input port
4	Mode button For information on how to use the Mode button, see the <a href="#">Using the Mode Button</a> section	8	USB 2.0 port

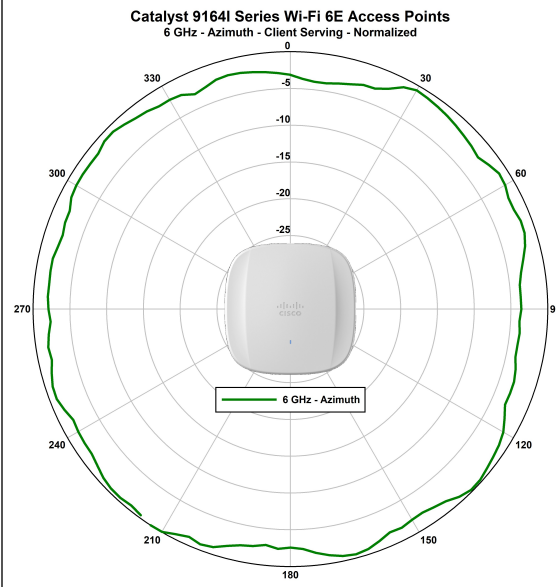
## CW9164I (Internal Antenna) Radiation Patterns

The following illustrations show the CW9164I model with internal antenna radiation patterns:

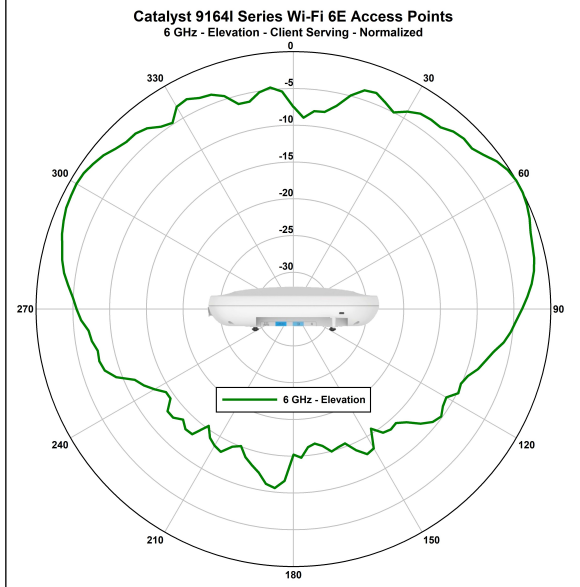
Table 1: Cisco Catalyst 9164I AP Radiation Patterns



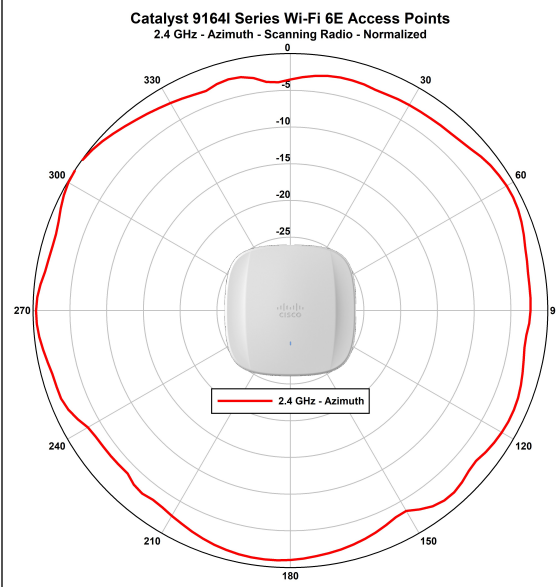
**Figure 7: CW9164I - Client-Serving Normalized Radiation Pattern (6-GHz Azimuth)**



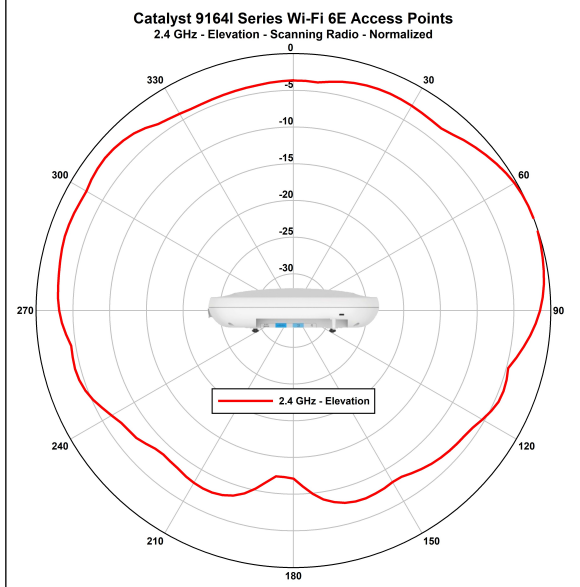
**Figure 8: CW9164I - Client-Serving Normalized Radiation Pattern (6-GHz Elevation)**



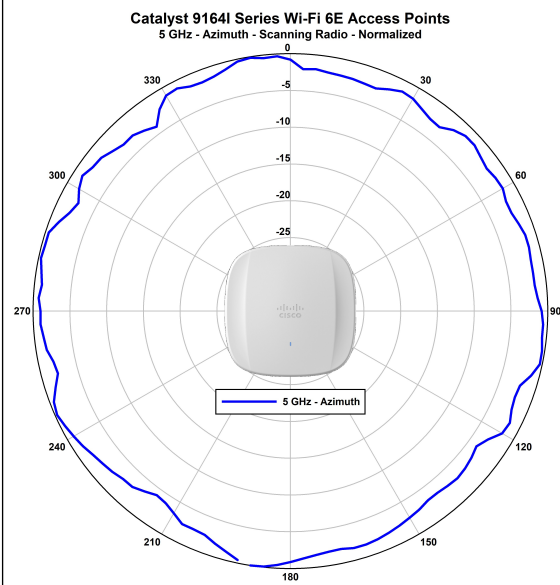
**Figure 9: CW9164I - Scanning Radio-Normalized Radiation Pattern (2.4-GHz Azimuth)**



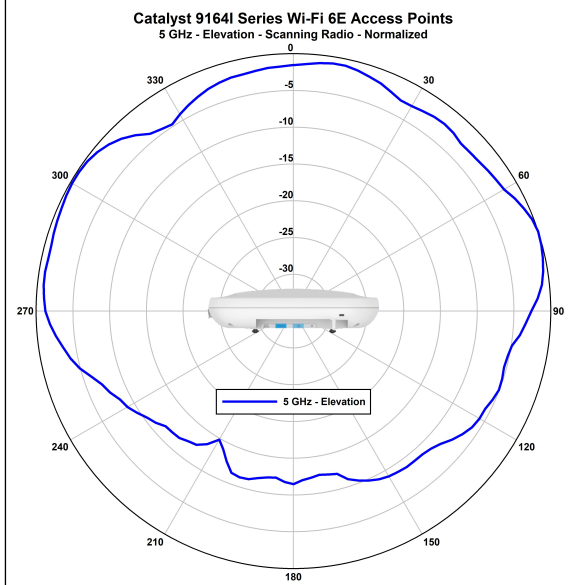
**Figure 10: CW9164I - Scanning Radio-Normalized Radiation Pattern (2.4-GHz Elevation)**



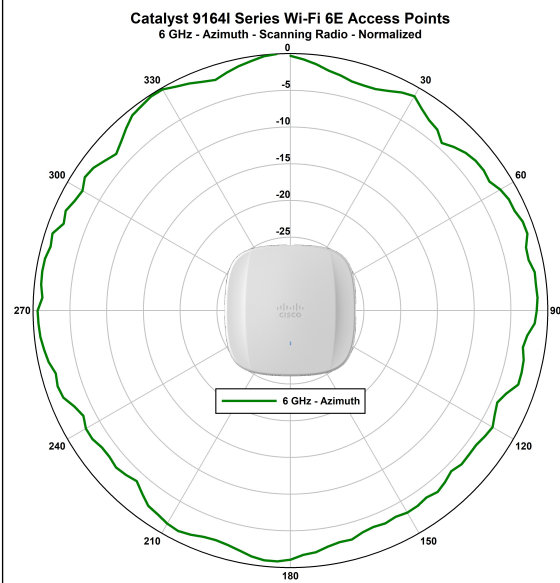
**Figure 11: CW9164I - Scanning Radio-Normalized Radiation Pattern (5-GHz Azimuth)**



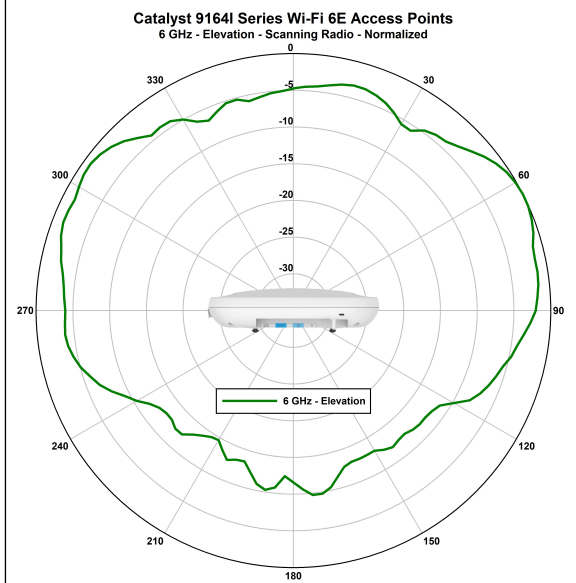
**Figure 12: CW9164I - Scanning Radio-Normalized Radiation Pattern (5-GHz Elevation)**



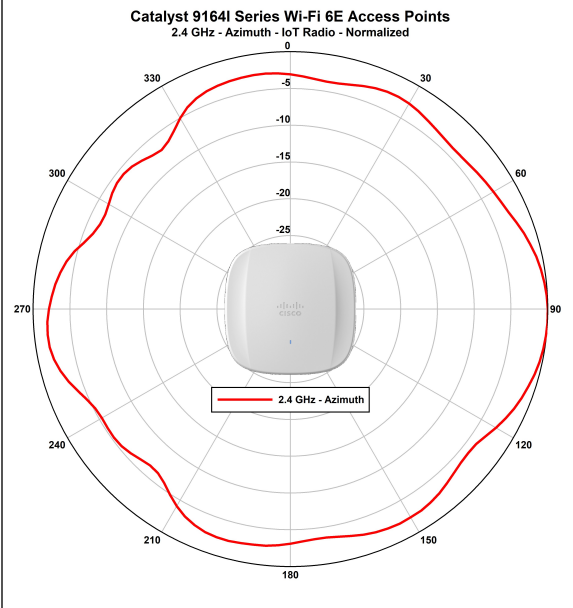
**Figure 13: CW9164I - Scanning Radio-Normalized Radiation Pattern (6-GHz Azimuth)**



**Figure 14: CW9164I - Scanning Radio-Normalized Radiation Pattern (6-GHz Elevation)**



**Figure 15: CW9164I - IoT (BLE) Antenna-Normalized Radiation Pattern (2.4-GHz Azimuth)**



**Figure 16: CW9164I - IoT (BLE) Antenna-Normalized Radiation Pattern (2.4-GHz Elevation)**

