



## Overview

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## Features

The Cisco<sup>®</sup> Provider Connectivity Assurance Sensor F25 (formerly Accedian Skylight Flex 25 Performance Element) is a next-generation, multiport, 25 Gigabit Ethernet platform that delivers the same ultra-low-latency packet forwarding and jitter found in the rest of the Cisco Provider Connectivity Assurance Sensor portfolio.

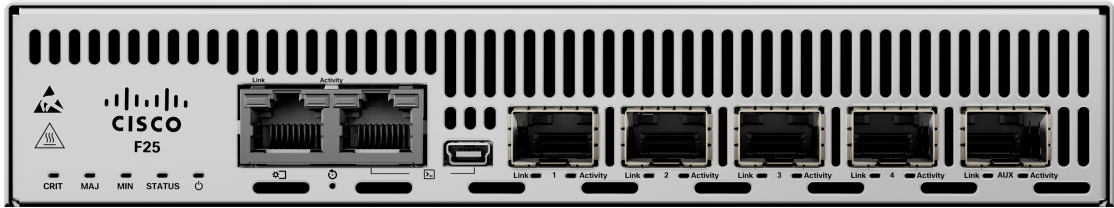
Designed for high-bandwidth and high-availability applications that require granular service assurance, the Provider Connectivity Assurance Sensor F25 is optimized for scalable service delivery and high-precision, real-time performance monitoring. It is an ideal edge, aggregation, or External Network-to-Network Interface (ENNI) unit for demanding high-bandwidth wireless backhaul and fronthaul, SLA-backed business services, Ethernet wholesale, and dark fiber termination applications.

The Provider Connectivity Assurance Sensor F25 provides all the tools to establish, validate, and monitor Layer 2 and Layer 3 services in a single unit. Zero-touch provisioning and IPv4/IPv6 management make these Assurance Sensors easy and secure to deploy and manage.

Fully integrated with the Cisco Provider Connectivity Assurance platform, it supports service delivery automation and scalable, real-time metrics collection and reporting. Accelerated service rollouts and improved operational efficiency are enabled by the platform's actionable insights and machine learning capabilities.

The Provider Connectivity Assurance Sensor F25 interoperates with other Cisco Provider Connectivity Assurance Sensors to deliver a scalable end-to-end and core-to-edge performance-assured networking solution tailored to your applications.

Figure 1: Cisco Provider Connectivity Assurance Sensor F25



The following table lists the features of the Assurance Sensor F25.

Table 1: Cisco Provider Connectivity Assurance Sensor F25 Features

Feature	Description
Form factor	1RU
Rack mount	Standard 19-inch (48.3 cm) or 23-inch (58.42 cm) rack
Airflow	Front to rear
Management port	Built-in One RJ-45 connector (10M/100M/1GbE)
USB console port	One USB Mini-B console port (USB 2.0)
Traffic ports	Four SFP28 connectors (1/10/25GbE)
Auxiliary port	One SFP10 connector (1/10GbE)
Serial console port	One RJ-45 serial connector (RS-232 or two dry contacts)
Fans	Three fans for front-to-rear cooling

The following table lists the regulation and standard compliance features of the Assurance Sensor F25.

Table 2: Regulation and Standard Compliance (Model: NG25)

Feature	Description
Safety	IEC 62368-1, EN IEC 62368-1, AS/NZS 62368.1, CSA/UL 62368-1, GB 4943.1, J62368-1, SASO-IEC 62368-1
EMC - Emission (Class A)	CISPR 32, IEC 61000-3-2, IEC 61000-3-3, EN 55032, EN 61000-3-2, EN 61000-3-3, FCC (47 CFR 15, Subpart B), ICES-003, AS/NZS CISPR 32, VCCI-CISPR 32
EMC - Immunity	CISPR 35, EN 55035
EMC - Radio	ETSI EN 301 489-19, ETSI EN 303 413

Feature	Description
Telco	NEBS Level-3: GR-63, GR-1089
Enviro	RoHS: IEC 63000, EN IEC 63000

## Package Contents

Package contents for the Cisco Provider Connectivity Assurance Sensor F25 include the following:

- Assurance Sensor F25 (1)
- Power kit accessories (1)
  - DC Unit—Input mating connectors (2)
  - AC Unit—Power cord retainer clip (1)
- *Cisco Provider Connectivity Assurance Sensor F25*

This document contains URLs that point to the hardware installation guide, regulatory compliance and safety information guide, warranty, and licensing pages, and a QR code that points to the management center Documentation Portal.



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**Note** The package can contain other ordering options.

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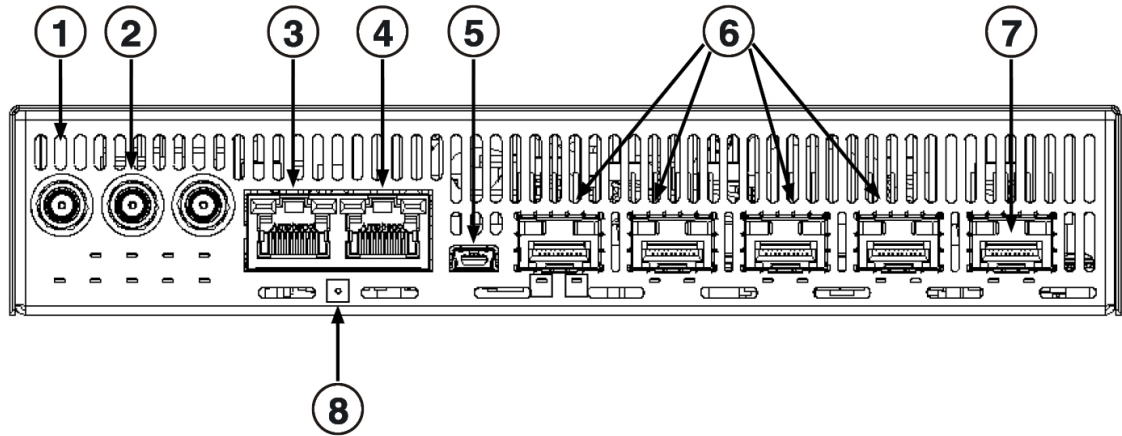
## Serial Number Locations

The Serial Number (SN) and the Media Access Control (MAC) address are located at the bottom of the Assurance Sensor F25.

## Front Panel

The following figure shows the front panel features of the Assurance Sensor F25. See [Front Panel LEDs, on page 5](#) for a description of the LEDs.

Figure 2: Font Panel



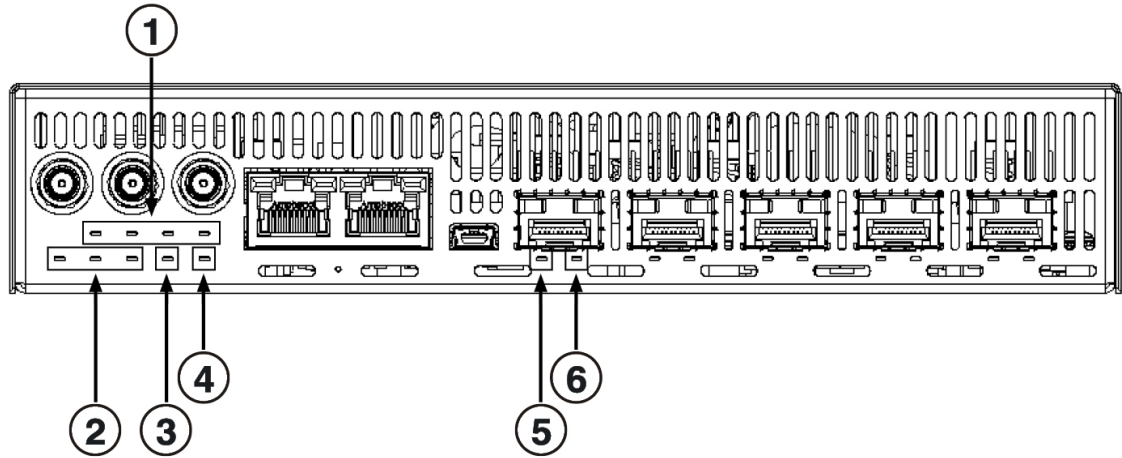
<p><b>1</b> System ventilation holes Fresh air intake</p>	<p><b>2</b> Synchronization input/output (optional)</p> <p><b>Warning</b> Ensure the unit's power source(s) have been turned off before servicing. Installations where a unit with the GNSS may be exposed to voltage in excess of 10kV, additional measures such as external surge suppressor may be necessary.</p> <ul style="list-style-type: none"> <li>• One SMA, GNSS antenna input</li> <li>• One SMA, sync IN</li> <li>• One SMA, sync OUT</li> </ul>
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3	<p>Management port</p> <p>RJ-45 connector (10M/100M/1GbE)</p>	4	<p>Console / Dry Contacts</p> <p>RJ-45 connector (RS-232 or 2 dry contacts)</p> <p><b>Note</b> Cannot be used at the same time.</p> <p><b>Caution</b> The Dry Contacts Interface is strictly Safety Extra Low Voltage (SELV).</p> <ul style="list-style-type: none"> <li>• PIN #1—Dry contact 1</li> <li>• PIN #2—Not connected</li> <li>• PIN #3—RS-232 TX data</li> <li>• PIN #4—Ground</li> <li>• PIN #5—Ground</li> <li>• PIN #6—RS-232 RX data</li> <li>• PIN #7—Not connected</li> <li>• PIN #8—Dry contact 2</li> </ul>
5	<p>Console port</p> <p>USB Mini-B port (USB 2.0)</p>	6	<p>Traffic ports</p> <p>Four SFP28 connectors (1/10/25GbE)</p>
7	<p>Auxiliary port</p> <p>SFP10 connector (1/10GbE)</p>	8	<p>RST</p> <p>System reset button</p> <p><b>Note</b> Press the RST button for more than five seconds to reset the unit to factory defaults.</p> <p><b>Warning</b> Service-affecting</p>

## Front Panel LEDs

The following figure shows the front panel LEDs and describes their states.

Figure 3: Front Panel LEDs and Their States



<p><b>1</b> Synchronization LEDs (optional)</p> <p>ANT</p> <ul style="list-style-type: none"> <li>• Green—GNSS is enabled and is locked on satellite.</li> <li>• Green, flashing—GNSS is enabled and searching for satellite.</li> </ul> <p>SYNC IN</p> <ul style="list-style-type: none"> <li>• Off—No synchronization input detected.</li> <li>• Green—Synchronization input detected.</li> </ul> <p>SYNC OUT</p> <ul style="list-style-type: none"> <li>• Off—Synchronization output deactivated.</li> <li>• Green—Synchronization output activated.</li> </ul> <p>ALM</p> <ul style="list-style-type: none"> <li>• Off—No synchronization module alarm condition.</li> <li>• Red—Synchronization module alarm condition.</li> </ul>	<p><b>2</b> MIN MAJ CRIT LEDs</p> <ul style="list-style-type: none"> <li>• MIN Yellow—A minor alarm condition is present.</li> <li>• MAJ Red—A major alarm condition is present.</li> <li>• CRIT Red—A critical alarm condition is present.</li> </ul>
<p><b>3</b> Status LED</p> <ul style="list-style-type: none"> <li>• Green—Normal operation.</li> <li>• Green, flashing—The unit is booting.</li> </ul>	<p><b>4</b> PWR LED</p> <ul style="list-style-type: none"> <li>• Off—The device is unpowered.</li> <li>• Green—The device is powered.</li> </ul>

<p><b>5</b> Link LED</p> <ul style="list-style-type: none"> <li>• Off—Link is inactive.</li> <li>• Green—Link is active.</li> </ul>	<p><b>6</b> Activity LED</p> <ul style="list-style-type: none"> <li>• Off—No TX/RX activity.</li> <li>• Green, flashing—Port is receiving/transmitting data.</li> </ul>
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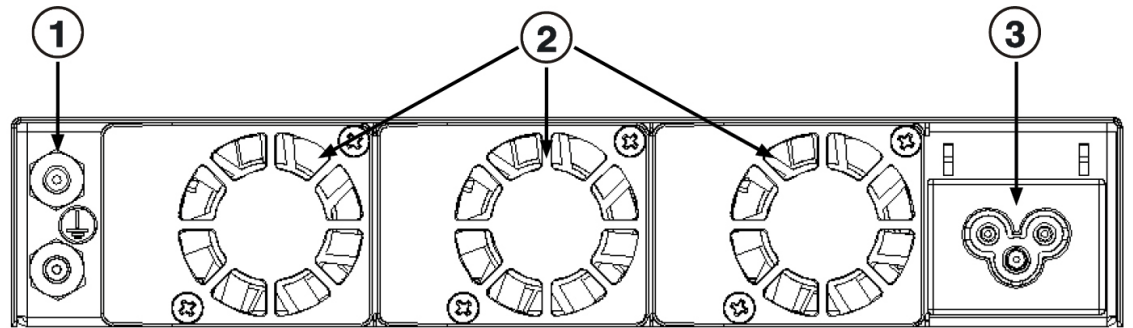
## Rear Panel

The unit can be ordered in these rear panel configurations:

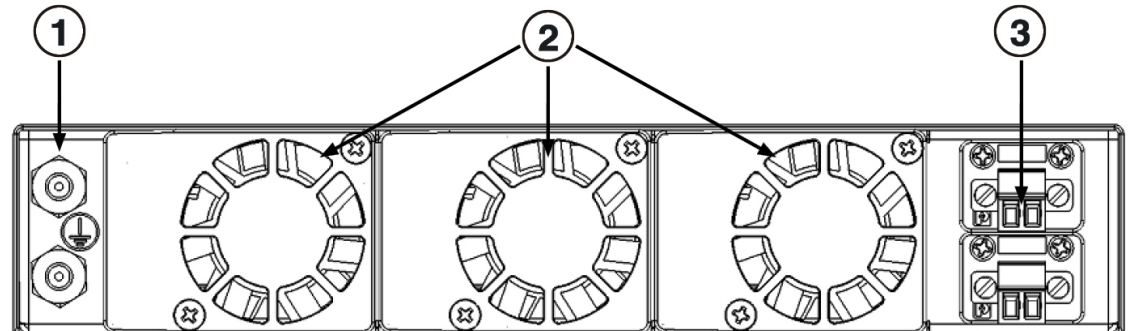
- AC power
- DC power

The following figure shows the rear panel of the Assurance Sensor F25.

**Figure 4: AC Power**



**Figure 5: DC Power**



<b>1</b>	Ground lugs Unit protective ground point (Lug type: 2x Stud #10 hole, 16 mm spacing)	<b>2</b>	Hot-swappable fan modules Hot air outtake
<b>3</b>	AC input connector: IEC 60320/C6 (1x) DC input connectors: Phoenix, 1829345 (2x)		—

## Power Supply

The following table lists the specifications for each power supply used in the Assurance Sensor F25.

**Table 3: Power Specifications**

Description	Specification
Input power ratings	AC input: 100 to 240 V AC, 50–60 Hz, 1.8 to 0.75 A <sub>Max</sub> DC input: 40 to 57 V DC, 3.8 to 2.4 A <sub>Max</sub>
Output power ratings	Antenna (Sync. Option): 3.3 V DC $\pm$ 10%, 50 mA <sub>Max</sub> SFP28: 3.5 W <sub>Max</sub> per port SFP10: 3.0 W <sub>Max</sub> per port <b>Warning</b> Transceivers used in the ports must stay within their specifications under all operating conditions of the system.
Power consumption	72 W <sub>Typ</sub> , 97 W <sub>Max</sub> (246 BTU/hr <sub>Typ</sub> , 328 BTU/hr <sub>Max</sub> )

## Hardware Specifications

The following table contains hardware specifications for the Assurance Sensor F25.

Dimensions (H x W x D)	1.4 x 7.7 x 12.4 inches (3.66 x 19.66 x 31.65 cm)
Weight	5.2 lb (2.4 kg)
Temperature	Operating: <ul style="list-style-type: none"> <li>• AC or DC Commercial: 32 to 122°F (0 to 50°C)</li> <li>• DC Hardened: -40 to 149°F (-40 to 65°C)</li> </ul> Storage: -40 to 158°F (-40 to 70°C)



Humidity	Operating: 5 to 85% RH, noncondensing Storage: 5 to 95% RH, noncondensing
Altitude	Maximum: 9900 ft (3000 m), above sea level

## Product ID Numbers

The following table lists the field-replaceable PIDs associated with the Assurance Sensor F25. If any internal components fail, you must get a return material authorization (RMA). See the [Cisco Returns Portal](#) for more information.

**Table 4: Provider Connectivity Assurance Sensor F25 PIDs**

PID	Description
SKY-F25-A	Provider Connectivity Assurance Sensor F25 Quad 25GbE Ports (SFP28), AC power input, Commercial
SKY-F25-D	Provider Connectivity Assurance Sensor F25 Quad 25GbE Ports (SFP28), DC power input, Commercial
SKY-F25-H-D	Provider Connectivity Assurance Sensor F25 Quad 25GbE Ports (SFP28), DC power input, Hardened

## Power Cord Specifications

Each AC power input requires a separate power cord. Power cords are available for connection to the Assurance Sensor F25.

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using an incompatible power cord with this product may result in electrical safety hazard.

PID	Description
SKY-PC-NA	North America - C5 termination
SKY-PC-EUR	Europe – C5 termination
SKY-PC-UK	United Kingdom – C5 termination
SKY-PC-JPN	Japan – C5 termination
SKY-PC-IND	India – C5 termination
SKY-PC-SIN	Singapore – C5 termination
SKY-PC-AUS	Australia / New Zealand – C5 termination
SKY-PC-SWI	Switzerland – C5 termination

PID	Description
SKY-PC-ITA	Italy – C5 termination
SKY-PC-ISL	Israel – C5 termination
SKY-PC-TWN	Taiwan – C5 termination
SKY-PC-ARG	Argentina – C5 termination
SKY-PC-BRZ	Brazil – C5 termination
SKY-PC-C20	C20 – C5 termination
SKY-PC-C14	C14 – C5 termination
SKY-PC-CHN	China – C5 termination



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**Note** Only the approved power cords for the Assurance Sensor F25 are supported.

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