Cisco Universal Small Cell 5030

The Cisco® Universal Small Cell (USC) 5030 is part of the Cisco Universal Small Cell Solution, an end-to-end platform that integrates third-generation (3G), Long Term Evolution (LTE), and carrier-grade Wi-Fi with self-optimizing network (SON) technologies and backhaul for an efficient and secure heterogeneous network (HetNet). The Cisco USC Series provides the right access point for every environment, from the home to the enterprise to high-density urban environments such as venues (Figure 1). This product is designed to operate in the enterprise environment.

Figure 1. Cisco Universal Small Cell Series

Product Overview

The Cisco USC 5030 chassis (Figure 2) is uniquely designed to hold a single 3G module. For a 3G enterprise solution, it is populated with the Cisco USC 5310 (Band 1 or Band 2/5). This allows an enterprise to easily and cost effectively deploy a small cell solution. The Cisco USC 5030 is ideally suited for public network hotspots such as coffee shops, as well as smaller and potentially isolated office locations where users are predominantly mobile. It is designed to be deployed anywhere an operator might deploy a Wi-Fi access point, taking advantage of existing real estate, power, and backhaul. In addition to transforming the mobile experience for the enterprise and hotspot user, the Cisco USC 5030 reduces network costs through intelligent policy-based operation, by making use of readily available, low-cost site backhaul.

Figure 2. Cisco USC 5030

Benefits

The Cisco USC 5030 allows mobile service providers to:

- Cost-effectively address hotspot and smaller enterprise locations
- Offer closed access services (enterprise location whitelist)
- Provide open access to public areas, such as coffee shops
- Offload the macro network for voice, data, and messaging services
- Offer mobility within a specific location
- Deploy the module along with the Cisco Aironet® 3600 or 3700 and with the Cisco USC 5310 to add carrier-grade Wi-Fi coverage and capacity for mobility convergence
- Use the best available Internet backhaul at that location

Ease of Management

Low-cost scalability, maintenance, and new service delivery are provided by the Cisco USC CloudBase™ lifecycle management system that is dedicated to small cell deployments. The result is a compelling combination of flexible capacity and coverage with a low total cost of ownership (TCO), allowing large volumes of Cisco Universal Small Cells to be deployed quickly and easily.

Self-Organizing Network

The Cisco USC Series features ActiveSON, an intelligent and automatic method for improving the installation and performance of a grid of cells in a location. Using peer-to-peer discovery and signaling, cells can discover each other, set key parameters such as neighbor lists, and dynamically adjust their configuration as the environment changes.

The Cisco SON Suite is fully integrated with the Cisco Universal Small Cell portfolio, to efficiently integrate the small cells into the macro network and create a truly heterogeneous multivendor, multitechnology Radio Access Network (RAN). With SON built into every USC access point, orchestrated and delivered at the network layer through the SON Suite, Cisco SON provides resilient, automatic operation, with self-installation, self-optimization, and self-healing, even in shared frequency indoor environments. These capabilities help reduce operating expenses (OpEx) and improve quality of experience.

Main Features of the Cisco USC 5030

- Flexible modular design to support multi-operator small cell environments
- Support for 3G module
- Single LED to show the status of the module in operation
- Single Ethernet port and power supply
- Support for external power supply unit (PSU) or power over Ethernet (PoE)
- Wall or ceiling mounted to fit a familiar Wi-Fi footprint

Main Features with the Cisco USC 5310

- 3G coverage and capacity
- Voice and data offload from the macro network
- High Speed Packet Access (HSPA) with an upgrade to Evolved High-Speed Downlink Packet Access (HSDPA+) supported
- High-availability software
- Targeted service with closed access (open access for any users is a software option)
- Support for up to 16 active 3G users that automatically balances between data and voice users
- Fully-automated, macro-aware, real-time radio interference management and self-configuration
- SON support for multicell deployments with no need for a local enterprise controller
- Cisco Universal Small Cell CloudBase software automation and lifecycle management systems that help simplify installation, reduce TCO, and accelerate rollout

Product Specifications

Table 1 shows the specification of the Cisco USC 5030 chassis.

Table 1. Cisco USC 5030 Product Specifications

Item	Specification
Interface	Copper Ethernet RJ45 (10/100 BaseT)
Power interface	Power block DC interface. Power block is AC 110/220/240V compatible PoE Injector available as an option
Compliance	Safety per EN IEC60950-1 and UL/CSA 60950 EMC Exposure per EN62311 CE Mark
Operating temperature	0 to 40ºC
Power consumption	<20W with module inserted
Cooling	Convection
Mounting option	Wall, ceiling, or desk, attaches to Standard Cisco Type 1 or 2 clip
Weight	~1 lb (<520 g)
Size	8.6 x 8.6 x 2 in. (22 x 22 x 5.3 cm)

Ordering Information

The Cisco USC 5030 is available for sale to service providers. It can be ordered using the part numbers shown in Table 2.

Table 2. Cisco USC 5030 Part Numbers

Product Name	Description	Order Code
Cisco Universal Small Cell 5030	Single Slot Enterprise Small Cell Chassis	USC5030-AI-K9 USC5030-BI-K9

Warranty

The Cisco USC 5030 includes a one-year limited hardware warranty with a 30-day return for repair. More detailed warranty information is available on Cisco.com at the Product Warranties page.

Cisco Small Cell Services

The Cisco Small Cell Solution is delivered by Cisco Services, an organization with unparalleled experience and expertise implementing large commercial small cell deployments, and providing world-class systems service integration. With specialized tools, knowledge, methodologies, best practices, and a collaborative delivery model that combines Cisco's expertise with our partners' and customers' capabilities, Cisco Services achieves superior results. We help service providers to mitigate risk, accelerate time to market for new revenue-generating services, lower total cost of ownership, maximize the value of investments, and improve the customer experience through service assurance.

The Cisco Services team delivers comprehensive support, encompassing the service provider's entire network lifecycle. Through a lifecycle approach to services, Cisco has developed consistent and proven methodologies to help service providers successfully design and deliver new service offerings. These services are customized to operator needs and are delivered through an extensive global support infrastructure, which includes Cisco's award-winning Technical Assistance Center (TAC), Cisco Services resources, Centers of Excellence, Small Cell IOT/SVT labs, and ecosystem partners.

For More Information

For more information about the Cisco USC 5030, visit http://www.cisco.com/go/smallcell or contact your local account representative.

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