

# Cisco Edge 300 Series

## Product Overview

The Cisco® Edge 300 Series (as shown in Figure 1) is an all-in-one access platform for enterprise next-generation connected room deployments that provide network-connected and rich media-enabled environments. It integrates all the essential components of a digital connected room experience with Ethernet LAN access, wireless LAN access, rich media, and application computing. It is also an open application platform that allows application partners and service providers to customize it to enable vertical solutions. Comparing to the traditional in-room deployments with PCs and multiple access devices, the Cisco Edge 300 significantly lowers the customer total cost of ownership.

**Figure 1.** Cisco Edge 300 Series



## Features and Benefits

Primary features of the Cisco Edge 300 Series:

- Integrated wired LAN, wireless access point, rich media (HDMI, audio), USB, Bluetooth, and computing for all-in-one connectivity (Figure 2)
- High-definition video with hardware-based video decoding
- Wireless access security authentication
- Plug-and-play provisioning with Cisco Smart Operation
- Web-based configuration and management
- Open Linux environment for application development partners and service providers to develop and host vertical applications
- Management API for integration with third-party platform
- Compact, fanless design with low power consumption

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Primary benefits of the Cisco Edge 300 Series:

- Consolidate and simplify connected room deployment into one device
- Save on hardware and software cost, license, support contract, and energy bills
- Simplified and user-friendly management with less device to deploy and plug-and-play provisioning and upgrade
- Customizable for vertical-specific application requirements

### Consolidation at Connected Room Deployments

Today, organizations around the world are modernizing their IT infrastructure to promote better productivity, communication, and collaboration. As part of this effort, the workspaces and service environments, such as classrooms in schools, healthcare clinics, service halls of bank branches, and retail stores, are network connected with new digital experience. Typical requirements of these “connected room” deployments include:

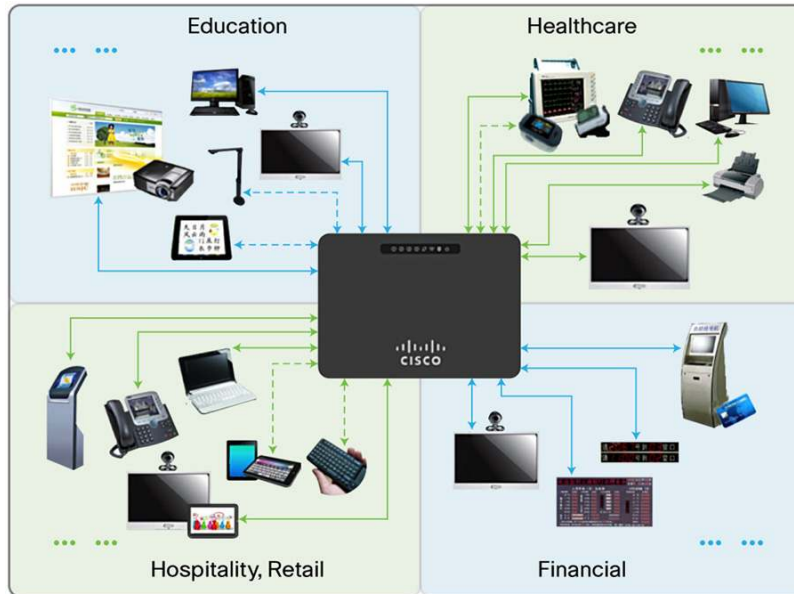
- LAN connectivity to connect PCs and IP phones
- Wireless LAN connectivity
- Rich media support such as video (display and conferencing) and audio
- Vertical-specific devices, such as interactive digital whiteboards in classrooms, which can be connected on USB, Bluetooth, HDMI, audio, and so on
- Vertical-specific applications, such as teaching applications in schools, ticket applications at bank branch offices, and so on; these applications are often run in the service areas with content centrally managed in the cloud
- Efficient provisioning and flexible management

To meet these requirements, organizations today deploy and manage multiple in-room devices. Given that many of these sites are remote without any advanced IT expertise, the operation cost can be a big challenge.

The Cisco Edge 300 Series provides a simplified and cost-effective solution by consolidating the network, rich media interfaces, and application compute into a compact, centrally managed device (as shown in Figure 2). By doing this, it helps to significantly lower the total cost of ownership from organizations:

- CapEx savings on hardware costs, hardware support contracts with reduced number of devices needed in the room, and software costs with Linux operating system
- OpEx savings on energy bills, onsite visits with less devices to manage, and plug-and-play provisioning and upgrade with Cisco Smart Operation

**Figure 2.** Cisco Edge 300 All-in-One Connectivity



## Flexible and Versatile with Open Application Environment

The Cisco Edge 300 Series provides onboard computing power and a Linux-based application development environment that allows organizations to host their vertical-specific applications. Typically these are lightweight applications that perform local computing tasks and then deliver rich media output through connected displays. Using Cisco Edge 300's onboard computing, multimedia support, and open development environment, service providers and application development partners can port existing applications or develop new applications on the Cisco Edge 300 Series to support vertical solutions. Table 1 lists some of the existing applications supported and enabled by the Cisco Edge 300 Series.

**Table 1.** Cisco Edge 300 Series Supported Applications

Applications	Description
<b>Built-In Applications</b>	
<b>Web Browser</b>	<ul style="list-style-type: none"> <li>Built-in Firefox and Chrome web browser</li> </ul>
<b>Video Player</b>	<ul style="list-style-type: none"> <li>Built-in VLC and Mplayer video players</li> <li>Ability to play Flash video</li> </ul>
<b>Open Office</b>	<ul style="list-style-type: none"> <li>Built-in document readers for PPT, DOC, PDF files</li> </ul>
<b>Peer-to-Peer Videoconferencing</b>	<ul style="list-style-type: none"> <li>Easy to set up peer-to-peer videoconferencing for collaboration</li> </ul>
<b>Industry Vertical Applications</b>	
<b>Digital Classroom</b>	<ul style="list-style-type: none"> <li>Enable next-generation connected digital classroom with integrated interactive whiteboard, education pad, remote teaching, and so on</li> <li>Support interactive whiteboard by 3rd-party vendor</li> </ul>
<b>Media Distribution and Signage</b>	<ul style="list-style-type: none"> <li>Digital media distribution and signage for retail service areas, hospitality, and other industry verticals</li> <li>Digital content edit and scheduling system by 3rd-party vendor</li> </ul>

The Cisco Edge 300 Series includes the models listed in Table 2.

**Table 2.** Cisco Edge 300 Series Models

Model	Description
<b>CS-E300-AP-K9</b>	Four 10/100Mbps Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, 802.11b/g/n wireless access point, four USB ports, Bluetooth, HDMI, audio
<b>CS-E300-K9</b>	Four 10/100Mbps Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, four USB ports, HDMI, audio

The product specifications for the Cisco Edge 300 Series are listed in Table 3.

**Table 3.** Product Specifications for Cisco Edge 300 Series

Feature	Technical Specification
<b>Network Interfaces</b>	
<b>Ethernet LAN</b>	<ul style="list-style-type: none"> <li>• Four 10/100M Ethernet interfaces</li> <li>• One 10/100/1000M uplink interface</li> <li>• Auto-MDIX for all Ethernet interfaces</li> <li>• Maximum switching performance: 2.08 Mpps</li> <li>• Maximum switching capacity: 2.4Gbps</li> </ul>
<b>Wireless LAN</b>	<ul style="list-style-type: none"> <li>• 802.11b/g/n wireless (access point mode or client mode), support for simultaneous access for multiple clients (only available on CS-E300-AP-K9)</li> </ul>
<b>Universal Serial Bus (USB)</b>	<ul style="list-style-type: none"> <li>• Four Type A USB2.0 interfaces</li> <li>• A USB interface provides a maximum of 5W power output</li> </ul>
<b>Bluetooth</b>	<ul style="list-style-type: none"> <li>• Bluetooth V 2.0 (only available on CS-E300-AP-K9)</li> </ul>
<b>Compute and Memory</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>• 1.2 GHz</li> </ul>
<b>Memory and Flash</b>	<ul style="list-style-type: none"> <li>• 2 GB DDR3 memory</li> <li>• 2 GB SLC NAND onboard Flash memory</li> <li>• 2 GB MLC Flash memor</li> </ul>
<b>Rich Media</b>	
<b>High-Definition Multimedia Interface (HDMI)</b>	<ul style="list-style-type: none"> <li>• Support for 720p/1080p high-definition video output</li> <li>• Support for video graphics array (720p59.94/720p50; 1080p59.94/1080p50; 1024x768@60HZ; 1280x960@85HZ)</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Microphone audio input (3.5mm)</li> <li>• Audio output (3.5mm)</li> </ul>
<b>Power Specification</b>	
<b>Power Adapter</b>	<ul style="list-style-type: none"> <li>• Input voltage and frequency <ul style="list-style-type: none"> <li>◦ AC input voltage: 100-240V</li> <li>◦ Line frequency: 50-60Hz</li> </ul> </li> <li>• Output voltage load <ul style="list-style-type: none"> <li>◦ Output voltage (DC): 12V</li> <li>◦ Maximum output current: 5 A</li> </ul> </li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Typical 20W (maximum 50W)</li> </ul>
<b>Power Input</b>	<ul style="list-style-type: none"> <li>• AC input voltage and frequency</li> <li>• AC input voltage: 100-240V</li> <li>• Line frequency: 50-60Hz</li> </ul>
<b>Heat Dissipation</b>	<ul style="list-style-type: none"> <li>• Use cooling devices based on natural convection technology and metal base to dissipate heat for the system</li> </ul>
<b>Physical and Environmental Specifications</b>	
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• H x W x D: 290mm x 210mm x 31mm (without mount)</li> </ul>
<b>Shipping Dimensions</b>	<ul style="list-style-type: none"> <li>• 362mm x 322mm x 184mm</li> </ul>

Feature	Technical Specification
<b>Maximum Weight</b>	<ul style="list-style-type: none"> <li>• 2590g (including mount kit, adapter, power cord, and Edge 300)</li> </ul>
<b>Operating Environments</b>	<ul style="list-style-type: none"> <li>• Operating temperature: -5° to 40°C</li> <li>• Storage temperature: -25° to 70°C</li> <li>• Storage altitude: 4573m</li> <li>• Relative humidity: 10% to 90%, noncondensing (operating or storage)</li> <li>• Operating altitude: 0 to 3000m</li> </ul>
<b>Stability</b>	<ul style="list-style-type: none"> <li>• Mean time between failure (MTBF): &gt; 100,000 hours</li> </ul>
<b>System Monitoring</b>	
<b>System Indicators</b>	<ul style="list-style-type: none"> <li>• Eight LED indicators to show system status: <ul style="list-style-type: none"> <li>◦ Power</li> <li>◦ Ethernet downlink (4)</li> <li>◦ Gigabit Ethernet uplink</li> <li>◦ Wireless (only available on CS-E300-AP-K9)</li> <li>◦ Bluetooth (only available on CS-E300-AP-K9)</li> </ul> </li> </ul>
<b>System Reset Button</b>	<ul style="list-style-type: none"> <li>• Press to restart the system</li> </ul>
<b>Safety and Compliance</b>	
<b>Safety Certifications</b>	<ul style="list-style-type: none"> <li>• CSA 60950-1</li> <li>• EN 300328 V1.7.1</li> <li>• EN 301489-1/-17</li> <li>• EN 50385</li> <li>• EN 60950-1 2nd</li> <li>• CE marking</li> <li>• ANATEL</li> <li>• COFETEL</li> <li>• NOM</li> <li>• China CCC</li> </ul>
<b>Electromagnetic Emissions Certifications</b>	<ul style="list-style-type: none"> <li>• China EMC certification</li> <li>• FCC 15C MPE</li> <li>• FCC 15B ICES-003</li> <li>• CE</li> <li>• KCC</li> <li>• IC RSS-210</li> <li>• EN 55022</li> <li>• EN 55024</li> </ul>
<b>Bluetooth</b>	<ul style="list-style-type: none"> <li>• BQB</li> </ul>
<b>Wi-Fi</b>	<ul style="list-style-type: none"> <li>• 802.11b/g/n Mark</li> <li>• China SRRC Certification</li> <li>• FCC</li> </ul>
<b>Operating System</b>	
<b>OS</b>	<ul style="list-style-type: none"> <li>• Linux-based operating system</li> <li>• X11/Qt development environment for hosted vertical applications</li> </ul>

## Service and Support

Cisco is committed to minimizing total cost of ownership for the network. The Cisco portfolio of technical support services helps ensure that its products operate efficiently, remain highly available, and benefit from the most up-to-date system software. The services and support programs described in Table 4 are available as part of the Cisco Desktop Switching Service and Support solution and are available directly from Cisco and through resellers.

**Table 4.** Cisco Services and Support Programs

Service and Support	Features
<b>Cisco Smart Foundation Service</b>	<ul style="list-style-type: none"><li>• Next-business-day advance hardware replacement as available</li><li>• Access to SMB TAC during business hours (access levels vary by region)</li><li>• Access to Cisco.com SMB knowledge base</li><li>• Online technical resources through Smart Foundation Portal</li><li>• Operating system software bug fixes and patches</li></ul>
<b>Cisco SMARTnet® Service</b>	<ul style="list-style-type: none"><li>• Around-the-clock, global access to the Cisco TAC</li><li>• Unrestricted access to the extensive Cisco.com knowledge base and tools</li><li>• Next-business-day, 8x5x4, 24x7x4, or 24x7x2 advance hardware replacement and onsite parts replacement and installation available<sup>1</sup></li><li>• Ongoing operating system software updates within the licensed feature set<sup>2</sup></li></ul>

<sup>1</sup> Advance hardware replacement is available in various service-level combinations. For example, 8x5xNBD indicates that shipment will be initiated during the standard 8-hour business day, 5 days a week (the generally accepted business days within the relevant region), with next-business-day (NBD) delivery. Where NBD is not available, same-day shipping is provided. Restrictions apply; review the appropriate service descriptions for details.

<sup>2</sup> Cisco operating system updates include the following: maintenance releases, minor updates, and major updates within the licensed feature set.

## Ordering Information

Table 5 provides ordering information.

**Table 5.** Ordering Information for Cisco Edge 300 Series

Part Number	Description
<b>CS-E300-AP-K9</b>	<ul style="list-style-type: none"><li>• Four 10/100Mbps Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, 802.11b/g/n wireless access point, four USB ports, Bluetooth, HDMI, audio</li></ul>
<b>CS-E300-K9</b>	<ul style="list-style-type: none"><li>• Four 10/100Mbps Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, four USB ports, HDMI, audio</li></ul>
<b>ACC-E300-WALL(=)</b>	<ul style="list-style-type: none"><li>• Wall-mount kit for Cisco Edge 300 Series</li></ul>
<b>ACC-E300-DESK(=)</b>	<ul style="list-style-type: none"><li>• Desktop installation kit for Cisco Edge 300 Series</li></ul>



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