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
- Compact, fanless design with low power consumption
- Plug-and-play provisioning with Cisco Smart Operation
- Open Linux environment for application development partners and service providers to develop and host vertical applications

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 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:

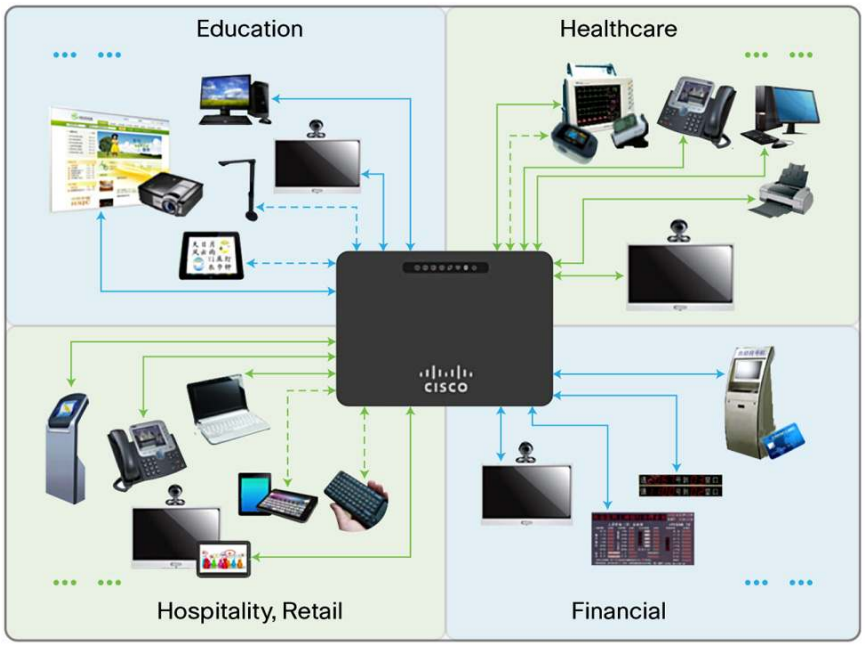
- LAN connectivity to connect PCs and IP phones
- Wireless LAN connectivity
- Rich media support such as video (display and conferencing) and audio
- Vertical-specific devices, such as interactive digital whiteboards in classrooms, which can be connected on USB, Bluetooth, HDMI, audio, and so on
- Vertical-specific 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

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
Built-In Applications	
Web Browser	• Built-in Firefox and Chrome web browser
Video Player	• Built-in VLC and Mplayer video players • Ability to play Flash video
Open Office	• Built-in document readers for PPT, DOC, PDF files
Peer-to-Peer Videoconferencing	• Easy to set up peer-to-peer videoconferencing for collaboration
Cisco WebEx®	• Cisco WebEx client support for online meetings and collaborations
Industry Vertical Applications	
Digital Classroom	• Enable next-generation connected digital classroom with integrated interactive whiteboard, education pad, remote teaching, and so on • Support interactive whiteboard vendors: HSJC
Media Distribution and Signage	• Digital media distribution and signage for retail service areas, hospitality, and other industry verticals • Digital content edit and scheduling system by Wafer Systems

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

Table 2. Cisco Edge 300 Series Models

Model	Description
CS-E300-AP-K9	Four 10/100Mpbs Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, 802.11b/g/n wireless access point, four USB ports, Bluetooth, HDMI, audio
CS-E300-K9	Four 10/100Mpbs 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
Network Interfaces	
Ethernet LAN	• Four 10/100M Ethernet interfaces • One 10/100/1000M uplink interface • Auto-MDIX for all Ethernet ports • Maximum switching performance: 2.08 Mpps • Maximum switching capacity: 2.4Gbps
Wireless LAN	• 802.11b/g/n wireless access point • Support for simultaneous access for multiple clients
Universal Serial Bus (USB)	• Four Type A USB2.0 interfaces • A USB interface provides a maximum of 5W power output
Bluetooth	• Bluetooth V 2.0 (only available on CS-E300-AP-K9)

Feature	Technical Specification
Compute and Memory	
CPU	• 1.2 GHz
Memory and Flash	• 2 GB DDR3 memory • 2 GB SLC NAND onboard Flash memory • 2 GB MLC Flash memor
Rich Media	
High-Definition Multimedia Interface (HDMI)	• Support for 720p/1080p high-definition video output • Support for video graphics array (720p59.94/720p50; 1080p59.94/1080p50; 1024x768@60HZ; 1280x960@85HZ)
Audio	• Microphone audio input (3.5mm) • Audio output (3.5mm)
Power Specification	
Power Adapter	• Input voltage and frequency ◦ AC input voltage: 100-240V ◦ Line frequency: 50-60Hz • Output voltage load ◦ Output voltage (DC): 12V ◦ Maximum output current: 5 A
Power Consumption	• Maximum 50W
Power Input	• AC input voltage and frequency • AC input voltage: 100-240V • Line frequency: 50-60Hz
Heat Dissipation	• Use cooling devices based on natural convection technology and metal base to dissipate heat for the system
Physical and Environmental Specifications	
Dimensions	• H x W x D: 290mm x 210mm x 31mm
Shipping Dimensions	• 362mm x 322mm x 184mm
Maximum Weight	• 2590g (including mount kit, adapter, power cord, and Edge 300)
Operating Environments	• Operating temperature: -5º to 40ºC • Storage temperature: -25º to 70ºC • Storage altitude: 4573m • Relative humidity: 10% to 90%, noncondensing (operating or storage) • Operating altitude: 0 to 3000m
Stability	• Mean time between failure (MTBF): > 100,000 hours
System Monitoring	
System Indicators	• Nine LED indicators to show system status: ◦ Power ◦ Ethernet downlink (1-4) ◦ Gigabit Ethernet uplink ◦ Wireless (not available for non-Wi-Fi version) ◦ Bluetooth (not available for non-Wi-Fi version)
System Reset Button	• Push to restart the system

Feature	Technical Specification
Safety and Compliance	
Safety Certifications	• CSA 60950-1 • EN 300328 V1.7.1 • EN 301489-1/-17 • EN 50385 • EN 60950-1 2nd • CE marking • ANATEL • COFETEL • NOM • China CCC
Electromagnetic Emissions Certifications	• China EMC certification • FCC 15C MPE • FCC 15B ICES-003 • CE • KCC • IC RSS-210 • EN 55022 • EN 55024
Bluetooth	• BQB
Wi-Fi	• 802.11g/n Mark • China SRRC Certification • FCC
Operating System	
OS	• Linux-based operating system • X11/Qt development environment for hosted vertical applications

Service and Support

Cisco is committed to minimizing total cost of ownership for the network. Its 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	Benefits
Cisco Smart Foundation	Access to software updates 24 hours Web access to technical repositories Telephone support through the Cisco Technical Assistance Center (TAC) Advance replacement of hardware parts	Supplements existing staff Helps ensure that functions meet needs Mitigates risk Helps enable proactive or expedited issue resolution Lowers total cost of ownership by taking advantage of Cisco expertise and knowledge Helps minimize network downtime

Ordering Information

Table 5 provides ordering information.

Table 5. Ordering Information for Cisco Edge 300 Series

Part Number	Description
CS-E300-AP-K9	• Four 10/100Mpbs Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, 802.11b/g/n wireless access point, four USB ports, Bluetooth, HDMI, audio
CS-E300-K9	• Four 10/100Mpbs Ethernet ports and one 10/100/1000Mbps Ethernet uplink port, four USB ports, HDMI, audio
ACC-E300-WALL(=)	• Wall-mount kit for Cisco Edge 300 Series
ACC-E300-DESK(=)	• Desktop installation kit for Cisco Edge 300 Series

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