

Cisco Edge 340 Digital Media Player

Product Overview

The Cisco® Edge 340 Digital Media Player (DMP) is a unified content storage, delivery, and media platform. It can be used to deliver highly interactive multimedia experiences to your customers and employees, regardless of your business size or vertical industry, for promotional, educational, and entertainment purposes. The Edge 340 makes it possible to store and deliver your content locally or across many dispersed locations from the cloud to digital signs, kiosks, way-finders, IPTV apps, and other connected devices. Ultimately, the Cisco Edge 340 DMP helps your organization communicate, connect, learn, and engage customers and employees in new ways.

Compared with PC-based alternatives, the Cisco Edge 340 DMP delivers the benefits of a highly reliable, robust platform that excels at power efficiency. These qualities make the Edge 340 the industry leader in the digital media player market. Cisco Edge 340 DMPs have both wireless and non-wireless versions (Figure 1); the wireless version supports Wi-Fi and Bluetooth functions.

Figure 1. Cisco Edge 340 Digital Media Player



Features and Benefits

Here is a summary of the primary features and benefits of the Cisco Edge 340 DMP:

- High-performance video and graphics capability with hardware acceleration
- Interactive experience with touch and multi-touch support, USB, IR, and remote controller options (Figure 2)
- Flexible wireless deployment option with 802.11a/b/g/n support
- Integration with the Appspace 5.0 content management system (CMS), which serves as content delivery and device management platform. Appspace 5.0 supports a next-generation media stack and cross-platform media player client and is optimized for HTML 5-based apps and content
- Unified content and device management with management application programming interface (API) for use with third-party CMS solutions.
- Lower total cost of ownership (TCO) thanks to a compact appliance design that is fan-less, which reduces power consumption, and a long-lifecycle embedded chipset

Figure 2 shows the interfaces on the Cisco Edge 340 Digital Media Player.

Figure 2. Interfaces on Cisco Edge 340 Digital Media Player

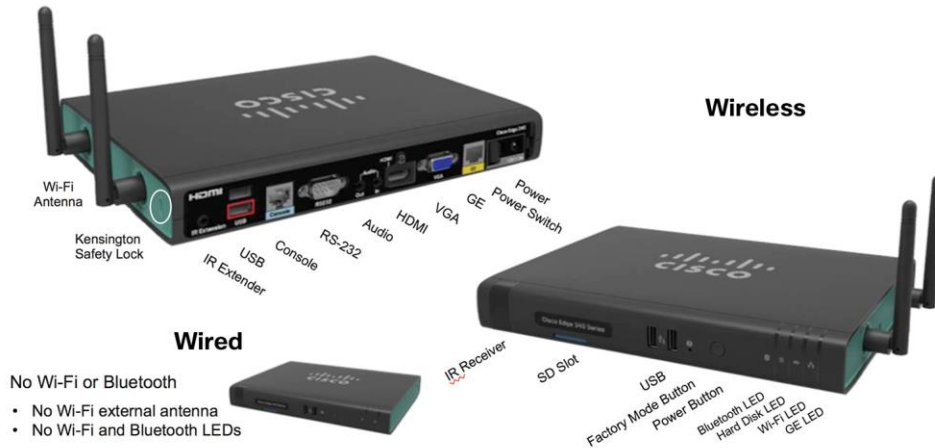


Table 1 provides additional details about the primary features and benefits of the Cisco Edge 340 DMP.

Table 1. Features and Benefits

Feature	Benefit
Hardware	
<ul style="list-style-type: none"> • Hardware-accelerated HD and standard-definition (SD) video decoding • MPEG 2 and 4, H.264, and VC-1 hardware decoding up to 30 frames per second (fps) • Multiple video zoning and planes • Up to two simultaneous HD video streams • Broad range of aspect ratios (4:3, 3:2, 16:9) • Flash support (v10 and v11 and action script v2 and v3, swf, and.flv) 	<ul style="list-style-type: none"> • Support for various content formats means higher-quality media experiences • Provides a platform that can adapt to many different use cases
<p>Full audio support</p> <ul style="list-style-type: none"> • MP3, AAC, AC3, PCM, WAV, WMA, and OggVorbis • Audio in and out interfaces • Audio data rate 32-512 kbps • High-Definition Multimedia Interface (HDMI) audio 	<ul style="list-style-type: none"> • High-quality audio playback • Content delivery is coherent and synchronized
<p>Strong compute performance and storage</p> <ul style="list-style-type: none"> • 1.6 GHz dual-core CPU • 2 GB dual data rate 3 (DDR3) memory • 32 GB storage and SD slot for extendable storage 	<ul style="list-style-type: none"> • High performance improves quality, efficiency, and effectiveness of digital media • Storage of content for local playback or in failover scenarios offers greater reliability • You can locally store large media files and have ability to extend that storage as needed with multiple options
<p>Built-in 802.11a/b/g/n dual-band connections, both access-point and client modes (available only on wireless SKU)</p>	<ul style="list-style-type: none"> • You enjoy high-performance wireless network service • More flexible deployment options are available
<p>802.3af (PoE) and 802.3at (PoE+) powered device support</p>	<ul style="list-style-type: none"> • Use existing PoE/PoE+ infrastructure
<p>RS-232 support</p>	<ul style="list-style-type: none"> • Control commercial grade displays through built-in serial connectivity
<p>IR support (including remote, built-in receiver, and extender)</p>	<ul style="list-style-type: none"> • Remote control access for controlling IPTV or video-on-demand (VoD) applications
<p>Four USB ports</p>	<ul style="list-style-type: none"> • Allows for the integration of peripheral devices such as bar code, RFID, scanners, and printers

Feature	Benefit
Software	
Integration with the Appspace content and information management platform	<ul style="list-style-type: none"> Provides a simple user interface for building applications and for the management and deployment of those applications You get centralized management of the DMP infrastructure through an Advanced Device Management feature
Open management API	<ul style="list-style-type: none"> The player can be easily integrated with a partner content management system The player can be customizable for various digital signage solutions
SIP Video Calling	<ul style="list-style-type: none"> Supports interactivity through video call technology for better user experiences Enables Remote Expert functionality using the Cisco unified communications infrastructure
Web-based GUI configuration	<ul style="list-style-type: none"> The player can be easily configured and managed at the system level
Touch and multitouch support	<ul style="list-style-type: none"> Enables rich interactive signage and kiosk applications
Form Factor	
Low power consumption (11W on average)	<ul style="list-style-type: none"> Low power consumption offers higher reliability and reduced capital expenses (CapEx) and operating expenses (OpEx) The player is environmentally friendly
Various mount options (desktop, wall, ceiling, pole, and display)	<ul style="list-style-type: none"> Deployment is flexible for use in various scenarios
Compact and fan-less	<ul style="list-style-type: none"> Because the player has no moving parts, it enjoys a longer life (100,000 MBTF)

Product Specifications

Table 2 lists product specifications for the Cisco Edge 340 Digital Media Player.

Table 2. Product Specifications for Cisco Edge 340 Digital Media Player

Specification	Description
Multimedia	
High-Definition Multimedia Interface (HDMI)	<ul style="list-style-type: none"> Support HDMI (up to 1080p @ 60 Hz)
Video graphics array interface (VGA)	<ul style="list-style-type: none"> Support VGA (up to 1080p @ 60 Hz)
Hardware-accelerated video codec	<ul style="list-style-type: none"> MPEG2 MPEG4 Part 2 MPEG4 Part 10 (H.264) VC-1 (wmv9)
Software-supported video codec	<ul style="list-style-type: none"> H.261 H.263 MPEG1 RealMedia MJPEG
Audio codec	<ul style="list-style-type: none"> MPEG1 Layers 1 and 2, MP3, AAC, AC3, PCM, WAV, WMA, and OggVorbis
Flash	<ul style="list-style-type: none"> v10 and v11 swf and flv Action Scripts 2 and 3
Media containers	<ul style="list-style-type: none"> MP4, MKV, MOV, TS, AVI, MPEG/MPG, OGG, WMV, and FLV
Live stream	<ul style="list-style-type: none"> HTTP, Real-Time Transport Protocol (RTP), User Datagram Protocol (UDP), Real Time Streaming Protocol (RTSP)¹, RTP over RTSP, and HTTP Live Stream
Pictures	<ul style="list-style-type: none"> PNG, JPEG, GIF, BMP, TIFF

Specification	Description
Compute and Storage	
CPU	<ul style="list-style-type: none"> • 1.60 GHz dual-core
Memory	<ul style="list-style-type: none"> • 2 GB dual data rate 3 (DDR3) memory
Storage	<ul style="list-style-type: none"> • 32 GB built-in SSD • One SD slot (multi-level cell [MLC] SD card highly preferred)
Interface	
Video	<ul style="list-style-type: none"> • One HDMI (v1.3a) • One VGA
Audio	<ul style="list-style-type: none"> • Audio in and output (3.5 mm, jack)
Ethernet uplink	<ul style="list-style-type: none"> • One 10/100/1000Mbps Ethernet
Universal Serial Bus (USB)	<ul style="list-style-type: none"> • Four USB2.0 interfaces (Type A)
Wireless	<ul style="list-style-type: none"> • 802.11a/b/g/n, dual-band(2.4G and 5G)², both access-point and client modes, and internal and external antennas with toggle switch, support for simultaneous access for multiple clients (available only on wireless SKU)
Bluetooth	<ul style="list-style-type: none"> • Bluetooth v4.0 (available only on wireless SKU)
RS-232	<ul style="list-style-type: none"> • One (DB-9, male)
Console	<ul style="list-style-type: none"> • One (RJ-45)
Infrared	<ul style="list-style-type: none"> • Built-in receiver • One extender interface (3.5mm jack) • IR remote (optional, maximum distance is 15 ft [4.57m])
Network Protocol	
Protocols supported	<ul style="list-style-type: none"> • TCP and UDP • Dynamic Host Configuration Protocol (DHCP) • Internet Group Management Protocol Versions 1, 2, and 3 (IGMPv1, v2, and v3) • Simple Network Management Protocol Versions 1, 2, and 3 (SNMP v1, v2, and v3) • Network Time Protocol (NTP) • Cisco Discovery Protocol (CDP) and Link Layer Discovery Protocol (LLDP) • Common Internet File System (CIFS) • Secure Shell Protocol Version 2 (SSHv2)
Security	
VPN	<ul style="list-style-type: none"> • IP Security (IPsec), Layer 2 Tunneling Protocol (L2TP), and Point-to-Point Protocol (PPP) preshared key (PSK) • IPsec, L2TP, and PPP Rivest, Shamir, and Adelman (RSA) • Point-to-Point Tunneling Protocol (PPTP) and PPP • Cisco Easy VPN Hybrid and PSK
Authentication	<ul style="list-style-type: none"> • 802.1X authentication appliance
Video Call³	
Signaling Protocol	<ul style="list-style-type: none"> • SIP
Bandwidth	<ul style="list-style-type: none"> • Up to 2Mbps
Video standards	<ul style="list-style-type: none"> • H.264
Audio standards	<ul style="list-style-type: none"> • G.722, G.711mu and G.711a
System	
Status indicator	<p>LED indicators to show system status, including:</p> <ul style="list-style-type: none"> • Gigabit Ethernet uplink • Wireless (available only on wireless SKU) • Bluetooth (available only on wireless SKU) • Storage • Infrared (IR)
Power button	<ul style="list-style-type: none"> • Press to boot system
Factory-mode button	<ul style="list-style-type: none"> • Press to reboot into factory mode

Specification	Description
Power Specifications	
Power consumption - PoE/PoE+	<ul style="list-style-type: none"> • 11W (on average) actual consumption - PoE power budget 15.4W
Power input - power cube	<ul style="list-style-type: none"> • AC input voltage: 100-240V • Line frequency: 50-60Hz
Physical and Environmental Specifications	
Dimensions	<ul style="list-style-type: none"> • H x W x D: 244 x 186 x 35 mm (9.6 x 7.3 x 1.4 in.) (without mount)
Shipping dimensions	<ul style="list-style-type: none"> • 317.5 x 242.8 x 158.8 mm (12.5 x 9.56 x 6.25 in.)
Net weight	<ul style="list-style-type: none"> • 0.912 kg (2.01 lb)
Maximum shipping weight	<ul style="list-style-type: none"> • 2.75 kg (6.06 lb) (with mount, power adapter, power cable, remote, IR extender, and Wi-Fi antenna)
Operating environments	<ul style="list-style-type: none"> • Operating temperature: 0 to 50°C (32°F to 122°F) • Storage temperature: -25 to 70°C (-13°F to 158°F) • Storage altitude: 4573m (14,999 feet) • Relative humidity: 10 to 90%, noncondensing (operating or storage) • Operating altitude: 0 to 2000m (0 to 6,562 feet)
Stability	<ul style="list-style-type: none"> • Mean time between failure (MTBF): > 100,000 hours
Safety and Compliance	
Safety certifications	<ul style="list-style-type: none"> • IEC 60950-1 • EN 60950-1 • AS/NZS 60950-1 • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1
Electromagnetic emissions certifications	<p>EMI/EMC</p> <ul style="list-style-type: none"> • CISPR 22 • EN 55022 • EN 61000-3-2 • EN 61000-3-3 • AS/NZS CISPR 22 • 47 CFR FCC Part 15B • ICES-003 • CISPR 24 • AS/NZS CISPR 24 • EN 55024 • EN 301 489-1 • EN 301 489-17 <p>Radio</p> <ul style="list-style-type: none"> • EN 300 328 • EN 301 893 • AS/NZS 4268 • 47 CFR FCC Part 15C • 47 CFR FCC Part 15E • 47 CFR FCC Part 15.247 • RSP-100 • RSS-GEN • RSS-210 • RSS-310 • China regulations • G.S.R 45(E) • NOM-121-SCT1-2009 • CNT-Q2.63.01 • Resolution 506 • KC Rules • EN 300 328 • IDA TS SRD <p>RF SAFETY</p> <ul style="list-style-type: none"> • EN 50385 • FCC OET 65, Suppl. C • RSS-102

Specification	Description
Bluetooth	<ul style="list-style-type: none"> • BQB
Wi-Fi	<ul style="list-style-type: none"> • 802.11a/b/g/n • China SRRC Certification • FCC
Operating System	
OS	<ul style="list-style-type: none"> • Linux with Kernel 3.6

¹ RTSP is limited supported, pls refer to [Cisco Edge 340 Digital Media Player Q&A](#) for details

² For Wireless SKUs, CS-E340W-M32-K9 can support 2.4G only. Other wireless SKUs can support both 2.4G and 5G

³ SIP client function is provided by API

Table 3 lists the browsers that Cisco Edge 340 supports.

Table 3. Browser

Specification	Description
Browser	Chrome: 26.0 Firefox: 18.0

Table 4 lists all accessories of Cisco Edge 340.

Note: All accessories are optional and they incur additional cost.

Table 4. Accessory List

Accessory	Description	Note
Power Adapter		
ACC-E340-PWR=	Cisco Edge 340 power adapter	Orderable alone
ACC-E340-PWR	Cisco Edge 340 power adapter	Not orderable alone
Installation Mount		
ACC-E340-M-V=	Cisco Edge 340 mount for desktop vertical deployment	Orderable alone
ACC-E340-M-E=	Cisco Edge 340 mount for wall, ceiling, pole deployment	Orderable alone
ACC-E340-M-D=	Cisco Edge 340 mount for display deployment	Orderable alone
Other		
ACC-E340-ANT	Cisco Edge 340 Wi-Fi external antenna, Omni	Not orderable alone, only available for Wi-Fi SKU
ACC-E340-ANT=	Cisco Edge 340 Wi-Fi external antenna, Omni	Orderable alone
ACC-E340-IRE	Cisco Edge 340 IR extender	Not orderable alone
ACC-E340-IRE=	Cisco Edge 340 IR extender	Orderable alone

Table 5. Spectrum and Channel Definitions of Domain

Domain	2.4 GHz	5 GHz
A (A regulatory domain)	<ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels 	<ul style="list-style-type: none"> • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels
C (C regulatory domain)	<ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels 	<ul style="list-style-type: none"> • 5.745 to 5.825 GHz; 5 channels
E (E regulatory domain)	<ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels 	<ul style="list-style-type: none"> • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excludes 5.600 to 5.640 GHz)
N (N regulatory domain)	<ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels 	<ul style="list-style-type: none"> • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels

Table 6 lists Cisco services and support programs for the Edge 340 DMP product.

Table 6. Cisco Services and Support Programs

Service and Support	Features
Cisco SMARTnet® Service	<ul style="list-style-type: none"> • Around-the-clock, global access to the Cisco Technical Assistance Center (TAC) • Unrestricted access to the extensive Cisco.com knowledge base and tools • Next-business-day (NBD), 8 x 5 x 4, 24 x 7 x 4, or 24 x 7 x 2 advance hardware replacement and onsite parts replacement and installation available⁴ • Ongoing operating system software updates within the licensed feature set⁵
Cisco Smart Foundation Service	<ul style="list-style-type: none"> • Next-business-day advance hardware replacement as available • Access to the small and medium-sized business (SMB) TAC during business hours (access levels vary by region) • Access to Cisco.com SMB knowledge base • Online technical resources through Smart Foundation Portal • Operating system software bug fixes and patches

⁴ Advance hardware replacement is available in various service-level combinations. For example, 8 x 5 x NBD 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 NBD delivery. Where NBD is not available, same-day shipping is provided. Restrictions apply; please review the appropriate service descriptions for details.

⁵ Cisco operating system updates include the following: maintenance releases, minor updates, and major updates within the licensed feature set.

Warranty Information

The Cisco Edge 340 Digital Media Players comes with a one-year manufacturer's defect warranty.

Ordering Information

Table 7 provides ordering information for the Cisco Edge 340 Digital Media Player.

Table 7. Ordering Information

PID	Product Description	Note
Digital Media Player		
CS-E340-M32-K9	Cisco Edge 340 DMP ver, 2G Memory, 32G SSD, 1GE, PoE+ PD	Non-wireless
CS-E340W-M32-A-K9	Cisco Edge 340 DMP ver, Wi-Fi, 2G Mem, 32G SSD, 1GE, PoE+ PD, A Reg. domain	Wireless, A domain
CS-E340W-M32-C-K9	Cisco Edge 340 DMP ver, Wi-Fi, 2G Mem, 32G SSD, 1GE, PoE+ PD, C Reg. domain	Wireless, C domain
CS-E340W-M32-N-K9	Cisco Edge 340 DMP ver, Wi-Fi, 2G Mem, 32G SSD, 1GE, PoE+ PD, N Reg. domain	Wireless, N domain
CS-E340W-M32-E-K9	Cisco Edge 340 DMP ver, Wi-Fi, 2G Mem, 32G SSD, 1GE, PoE+ PD, E Reg. domain	Wireless, E domain
CS-E340W-M32-K9	Cisco Edge 340 DMP ver, Wi-Fi, 2.4GHz band only, 2G Mem, 32G SSD, 1GE, PoE+ PD	Wireless, only 2.4G frequency supported, 1-13 channel enabled
Accessories		
ACC-E340-PWR	Cisco Edge 340 power adapter	Not orderable alone
ACC-E340-ANT	Cisco Edge 340 Wi-Fi external antenna, Omni	Not orderable alone, only available for wireless SKU
ACC-E340-IRE	Cisco Edge 340 IR extender	Not orderable alone
ACC-E340-M-D=	Cisco Edge 340 mount for display deployment	Orderable alone
ACC-E340-M-V=	Cisco Edge 340 mount for desktop vertical deployment	Orderable alone
ACC-E340-M-E=	Cisco Edge 340 mount for wall, ceiling, pole deployment	Orderable alone

PID	Product Description	Note
DMP-RM-K9=	Digital Media Player Remote Control	Orderable alone
ACC-E340-ANT=	Cisco Edge 340 Wi-Fi external antenna, Omni	Orderable alone, only available for wireless SKU
ACC-E340-IRE=	Cisco Edge 340 IR extender	Orderable alone
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F	Not orderable alone
UCS-SD-16G=	16 GB SD card for storage extension	Orderable alone

Note: The spectrum and channel definitions of domain are shown in Table 6. You are responsible for verifying approval for use in your individual country. To verify approval and to identify the regulatory domain that corresponds to a specific country, please refer to Cisco Edge 340 compliance status on the [Cisco Website](#).

To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

For More Information

For more information about the Cisco Edge 340 Digital Media Player and other Cisco digital media offerings, please visit the Cisco [Digital Media Website](#) or contact your local Cisco account representative.



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