Cisco Edge 340 Digital Media Player

The Cisco® Edge 340 Digital Media Player is a next-generation platform for interactive media experiences. With its powerful media capabilities and peripheral extensions, you can easily deliver and manage compelling and interactive media and applications to any place to communicate, connect, and engage customers and employees in a new way.

Product Overview

The Cisco Edge 340 Series Digital Media Player is a new digital media player (DMP) that delivers next-generation digital media experiences (Figure1). With its hardware-based media-acceleration capability, it supports up to two simultaneous high-definition (HD) video streams and comprehensive sets of content formats that enable various digital signage applications. It supports both passive and interactive signage with touch and multi-touch capabilities. It provides a rich set of peripheral extensions, such as extendable storage, USB, RS-232, infrared (IR) with remote controller, and Wi-Fi, to support very flexible deployment options and extended use cases. It also supports simplified deployment with unified content and device management, and Power over Ethernet (PoE). Compared with other PC-based alternatives, the Cisco Edge 340 Digital Media Player delivers the benefits of robustness, reliability, and power-consumption efficiency.

Cisco Edge 340 Digital Media Players have both wireless and non-wireless versions; the wireless version supports Wi-Fi and Bluetooth functions.

Figure 1.   Cisco Edge 340 Digital Media Player

Wireless   Non–wireless

Features and Benefits

The main features and benefits of the Cisco Edge 340 Digital Media Player follow:

- High-performance video(two simultaneous HD video outputs) and graphics capability with hardware acceleration
- Interactive experience with touch and multi-touch support, USB, IR, and remote controller options
- Flexible wireless deployment option with 802.11a/b/g/n support
- Unified content and device management with management application programming interface (API)

- Lower total cost of ownership (TCO) with appliance design with long-lifecycle embedded chipset; the player is compact and fan-less, with low power consumption

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

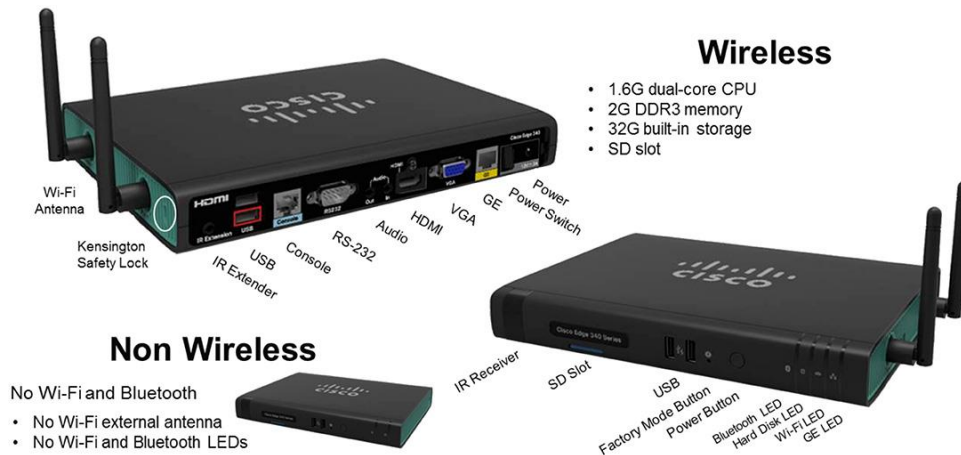**Figure 2.** Interfaces on Cisco Edge 340 Digital Media Player

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

Table 1. Features and Benefits

Feature	Benefit
Hardware	
Hardware-accelerated HD and standard-definition (SD) video • MPEG 2 and 4, H.264, and VC-1 hardware decoding up to 24 frames per second (fps) • Multiple video zoning and planes • Up to two simultaneous HD video streams • Broad range of aspect ratios (1280 x 960 p85, 720p, 1024 x 768 p60, 1080p, 720p50, 1080p50, 1080i, and 1080i50) • Flash support (v10 and v11 and action script v2 and v3, .swf, and .flv)	• Strong media capabilities enable support for various content formats, so customer has higher-quality media experiences.
Full audio support • 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	• Sound and audio playback are high-quality. • Content delivery is coherent and synchronized.
Strong compute performance and storage • 1.6 GHz dual-core CPU and 2 GB dual data rate 3 (DDR3) memory • 32 GB storage and SD slot for extendable storage	• High performance improves quality, efficiency, and effectiveness of digital media communication. • Storage of content for local playback or failover offers greater reliability and robust operation. Content size can be increased.
Built-in 802.11a/b/g/n dual-band, both access-point and client modes (available only on wireless SKU)	• The player offers high-performance wireless connectivity for Internet access with more channels and less interference. • More flexible deployment options are available.
802.3af (PoE) and 802.3at (PoE+) powered device support	• More peripherals are concurrently supported.
RS-232 support	• The player delivers better DMP experiences, and customer can operate and manage displays.
IR support (including remote, built-in receiver, and extender)	• Customer can easily manipulate and interact with player.
Touch and multi-touch support	• Customer's interactivity experiences are enhanced.

Feature	Benefit
Software	
Open management API	• The player can be easily integrated with a partner content management system. • The player can be customizable for various digital signage solutions.
Web-based GUI configuration	• The player can be easily configured and managed.
Form Factor	
Low power consumption (11W on average)	• 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)	• Deployment is flexible to allow for various scenarios.
Compact and fan-less	• The player has no moving parts, so the lifecycle is longer.

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)	• Support for 720p, 1080i, and 1080p high-definition video outputs
Video graphics array interface (VGA)	• Support for VGA (720p59.94 and 720p50; 1080p59.94 and 1080p50; 1080i59.94 and 1080i50; 1024 x 768 @ 60 Hz; and 1280 x 960 @ 85 Hz)
Hardware-accelerated video codec	• MPEG2 • MPEG4 Part 2 • MPEG4 Part 10 (H.264) • VC-1 (wmv9)
Software-supported video codec	• H.261 • H.263 • MPEG1 • RealMedia • MJPEG
Audio codec	• MPEG1 Layers 1 and 2, MP3, AAC, AC3, PCM, WAV, WMA, and OggVorbis
Flash	• v10 and v11 • .swf and .flv • Action Scripts 2 and 3
Media containers	• MP4, MKV, MOV, TS, AVI, MPEG/MPG, OGG, WMV, RM, FLV, and ASF
Live stream	• HTTP, Real-Time Transport Protocol (RTP), User Datagram Protocol (UDP), Real Time Streaming Protocol (RTSP), Microsoft Media Server Protocol (MMSH), and RTP over RTSP
Pictures	• PNG, JPEG, GIF, BMP, TIFF
Compute and Storage	
CPU	• 1.60 GHz dual-core
Memory	• 2 GB dual data rate 3 (DDR3) memory
Storage	• 32 GB built-in Flash • One SD slot(multi-level cell [MLC] SD card highly preferred)
Interface	
Video	• One HDMI (v1.3a) • One VGA

Specification	Description
Audio	• Audio in and output (3.5 mm, jack)
Ethernet uplink	• One 10/100/1000Mbps Ethernet
Universal Serial Bus (USB)	• Four USB2.0 interfaces (Type A)
Wireless	• 802.11a/b/g/n, dual-band, 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	• Bluetooth v4.0 (available only on wireless SKU)
RS-232	• One (DB-9, male)
Console	• One (RJ-45)
Infrared	• Built-in receiver • One extender interface (3.5mm jack) • IR remote (optional, maximum distance is 15 ft [4.57m])
Network Protocol	
Protocols supported	• 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 and Link Layer Discovery Protocol (LLDP) • Common Internet File System (CIFS) • Secure Shell Protocol Version 2 (SSHv2)
Security	
VPN	• 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
Wi-Fi authentication	• 802.1X authentication for Wi-Fi user
System	
Status indicator	LED indicators to show system status, including: • Gigabit Ethernet uplink • Wireless (available only on wireless SKU) • Bluetooth (available only on wireless SKU) • Storage • Infrared(IR)
Power button	• Press to boot system
Factory-mode button	• Press to reboot into factory model
Power Specifications	
Power consumption	• 11W(on average)
Power input	• AC input voltage: 100-240V • Line frequency: 50-60Hz
Physical and Environmental Specifications	
Dimensions	• H x W x D: 244 x 186 x 35 mm (9.6 x 7.3 x 1.4 in.) (without mount)
Shipping dimensions	• 317.5 x 242.8 x 158.8 mm (12.5 x 9.56 x 6.25 in.)
Net weight	• 0.912 kg (2.01 lb)
Maximum shipping weight	• 2.75 kg (6.06 lb) (with mount, power adapter, power cable, remote, IR extender, and Wi-Fi antenna)

Specification	Description
Operating environments	• Operating temperature: 0 to 50ºC (32ºF to 122ºF) • Storage temperature: -25 to 70ºC (-13ºF to 158ºF) • 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	• Mean time between failure (MTBF): > 100,000 hours
Safety and Compliance	
Safety certifications	• IEC 60950-1 • EN 60950-1 • AS/NZS 60950-1 • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1
Electromagnetic emissions certifications	**EMI/EMC** • 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 **Radio** • 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 **RF SAFETY** • EN 50385 • FCC OET 65, Suppl. C • RSS-102
Bluetooth	• BQB
Wi-Fi	• 802.11a/b/g/n Mark • China SRRC Certification • FCC
Operating System	
OS	• Linux with Kernel 3.1

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-IRE	Cisco Edge 340 IR extender	Not orderable alone

Ordering Information

Table 5 provides ordering information for the Cisco Edge 340 Digital Media Player.

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

Table 5.   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
Spare		
ACC-E340-PWR=	Cisco Edge 340 power adapter	Orderable alone
ACC-E340-PWR	Cisco Edge 340 power adapter	Not 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
ACC-E340-M-D=	Cisco Edge 340 mount for display deployment	Orderable alone
DMP-RM-K9=	Digital Media Player Remote Control	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
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 given 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 Cisco website.

Table 6.   Spectrum and Channel Definitions of Domain

Domain	2.4 GHz	5 GHz	Country
A domain	• 2.412 to 2.462 GHz; 11 channels	• 5.18 to 5.24 GHz; 4 channels • 5.745 to 5.825 GHz; 5 channels	• U.S. • Canada
C domain	• 2.412 to 2.472 GHz; 13 channels	• 5.745 to 5.825 GHz; 5 channels	• China (Main land)
E domain	• 2.412 to 2.472 GHz; 13 channels	• 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excludes 5.600 to 5.640 GHz)	• European Union, Thailand, Saudi, South Africa, Turkey, Sir Lanka, Ukraine
N domain	• 2.412 to 2.462 GHz; 11 channels	• 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels	• Australia, New Zealand, India, Mexico, China (Hong Kong)

Cisco Services

Cisco is committed to minimizing TCO for the network. Our portfolio of technical support services helps ensure that our products operate efficiently, they remain highly available, and they benefit from the most up-to-date system software. The services and support programs described in Table 7 are available as part of the Cisco Desktop Switching Service and Support solution and are available directly from Cisco and through resellers.

Table 7.   Cisco Services and Support Programs

Service and Support	Features
Cisco SMARTnet® Service	• 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 available [1] • Ongoing operating system software updates within the licensed feature set [2]
Cisco Smart Foundation Service	• 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

[1] 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.

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

For More Information

For more information about the Cisco Edge 340 Digital Media Player, please visit Cisco Website or contact your local Cisco account representative.

Printed in USA

C78-729463-01   12/13