

Cisco UCS E-Series Servers provide excellent performance and value for workloads including the following:

- Core Microsoft Windows services: Microsoft Active Directory Domain Services (AD DS), Microsoft Windows print services, Dynamic Host Configuration Protocol (DHCP) server services, Domain Name System (DNS) server services, file services, and others
- Mission-critical business applications: Point-of-sale (POS) systems, bank teller in-office control points (IOCPs), electronic-medical-record (EMR) systems, inventory management systems, and others
- Client-management services: Configuration and operations management, monitoring services, update and patching services, backup and recovery services, terminal server gateways, and others
- Other remote-office and branch-office applications

The Cisco UCS E-Series Servers extend the Cisco UCS product portfolio to meet the needs of customers who want to deploy a virtualization-ready computing infrastructure in a branch-office environment while maintaining a lean branch-office architecture. By combining virtualization with the servers, organizations can deploy new services incrementally on a schedule that best meets the organization's 37(k) c update

Hardware RAID 0, 1, and 5 support	<ul style="list-style-type: none"> • Hardware RAID 0 and 1 support on single-wide blades and double-wide blades with the PCIe card option • Hardware RAID 0, 1, and 5 support on double-wide blades without the PCIe card option • LSI MegaRAID controller
Cisco UCS C-Series Integrated Management Controller (CIMC)	<ul style="list-style-type: none"> • Web user interface for server management; remote keyboard, video, and mouse (KVM); virtual media; and administration • Virtual media support for remote CD and DVD drives as if local • Intelligent Platform Management Interface (IPMI) 2.0 support for out-of-band management through third-party enterprise management systems • Command-line interface (CLI) for server management • Integration with Cisco IOS[®] Software for optional management of the servers from within the router CLI and operating environment • One 10/100BASE-T out-of-band management interface
PCIe card support for additional network and storage I/O	Additional I/O performance and flexibility with four 1 Gigabit Ethernet or one 10 Gigabit Ethernet and Fibre Channel over Ethernet (FCoE) options (available in double-wide blades only)
Integrated external Gigabit Ethernet ports	Single-wide blades: 1 external Gigabit Ethernet port Double-wide blades: 2 external Gigabit Ethernet ports
Front-panel connectors	Front-panel VGA, 2 USB, and serial console connectors

Unlike the previous generation of Cisco UCS Express modules, Cisco UCS E-Series Servers are designed to support multiple bare-metal operating systems and hypervisors, including:

- Operating systems
 - Microsoft Windows Server
 - Red Hat Enterprise Linux (RHEL)
 - SUSE Linux
 - Oracle Enterprise Linux
- Hypervisors
 - Microsoft Hyper-V
 - VMware vSphere
 - Citrix XenServer

Table 2 lists the specifications for the Cisco UCS E-Series Servers.

Product Specifications

CPU	Intel® Xeon® processor E3-1105C (6-MB cache, 1.00 GHz, and 4 cores)	<ul style="list-style-type: none"> • Intel® Xeon® processor E5-2418L (10-MB cache, 2.0 GHz, and 4 cores) • Intel® Xeon® processor E5-2428L (15-MB cache, 1.8 GHz, and 6 cores)
DRAM	8 GB (default: one 8-GB DIMM) and up to 16 GB (two 8-GB DIMMs)	8 GB (default) and up to 48 GB (three 16-GB DIMMs)
Hard-disk drive (HDD)	Up to two: <ul style="list-style-type: none"> • 7200-rpm SATA: 1 TB • 10,000-rpm SAS: 900 GB • 10,000-rpm SAS SED: 600 GB • SAS SSD SLC: 200 GB 	Up to three (Cisco UCS E140D or E160D) or two (Cisco UCS E140DP or E160DP): <ul style="list-style-type: none"> • 7200-rpm SATA: 1 TB • 10,000-rpm SAS: 900 GB • 10,000-rpm SAS SED: 600 GB • SAS SSD SLC: 200 GB
RAID options	<ul style="list-style-type: none"> • Hardware RAID 0 and 1 • LSI MegaRAID controller 	<ul style="list-style-type: none"> • Cisco UCS E140D and E160D: Hardware RAID 0, 1, and 5 • Cisco UCS E140DP and E160DP: Hardware RAID 0 and 1 • LSI MegaRAID controller
Network interface cards (NICs)	Two internal and one external Gigabit Ethernet ports	Two internal and two external Gigabit Ethernet ports
Supported Cisco ISRs	Cisco 2911, 2921, 2951, 3925, 3925E, 3945, and 3945E	<ul style="list-style-type: none"> • Cisco UCS E140D and E140DP: Cisco 2921, 2951, 3925, 3925E, 3945, and 3945E • Cisco UCS E160D and E160DP: Cisco 3925, 3925E, 3945, and 3945E
PCIe	None	Cisco UCS E140DP and E160DP: Four 1 Gigabit Ethernet or one 10 Gigabit Ethernet and FCoE
Cisco UCS C-Series CIMC	<ul style="list-style-type: none"> • Integrated Emulex Pilot-3 baseboard management controller (BMC) • IPMI 2.0 compliant for management and control • One 10/100 Ethernet out-of-band management interface • CLI and WebGUI management tool for automated, lights-out management • KVM 	<ul style="list-style-type: none"> • Integrated Emulex Pilot-3 BMC • IPMI 2.0 compliant for management and control • One 10/100 Ethernet out-of-band management interface • CLI and WebGUI management tool for automated, lights-out management • KVM

Secure Digital (SD) cards	Two SD cards: one for the Cisco UCS C-Series CIMC and temporary storage of OS and hypervisor installation images, and one for a blank virtual drive on which you can install an OS or a hypervisor	Two SD cards: one for the Cisco UCS C-Series CIMC and temporary storage of OS and hypervisor installation images, and one for a blank virtual drive on which you can install an OS or a hypervisor
Front-panel connectors	One KVM console connector (supplies 2 USB, 1 VGA, and 1 serial connector)	Front-panel VGA, 2 USB, and serial console connectors
Physical dimensions (H x W x D)	1.58 x 7.44 x 7.5 in. (4 x 18.9 x 19.1 cm)	1.58 x 16.23 x 7.5 in. (4 x 41.2 x 19.1 cm)
Maximum weight	2.5 lb (1.1 kg)	7 lb (3.2 kg)
Temperature: Operating	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 32 to 104°F (0 to 40°C) normal 	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 32 to 104°F (0 to 40°C) normal
Temperature: Nonoperating	–4 to 149°F (–20 to 65°C)	–4 to 149°F (–20 to 65°C)
Humidity: Operating	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 10 to 85% operating 	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 10 to 85% operating
Humidity: Nonoperating	5 to 95%	5 to 95%
Altitude: Operating	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 104°F (40°C) at sea level 	According to operating requirements of deployable platform: <ul style="list-style-type: none"> • 104°F (40°C) at sea level
Altitude: Nonoperating	15,000 ft (4600m)	15,000 ft (4600m)

Table 3 lists regulatory standards compliance information.

Regulatory Standards Compliance: Safety and EMC

Safety	<ul style="list-style-type: none"> • UL 60950-1 Second Edition • CAN/CSA-C22.2 No. 60950-1 • IEC 60950-1 Second Edition • EN 60950-1 Second Edition • AS/NZS 60950-1
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EMC: Emissions

- 47CFR Part 15 (CFR 47) Class A
- AS/NZS CISPR22 Class A
- CISPR2 2 Class A
- EN55022 Class A
- ICES003 Class A
- VCCI V-3 Class I
- EN61000-3-2
- EN61000-3-3
- EN300386 Class A
- CNS13438, Class A

EMC: Immunity

- EN55024
- CISPR24
- EN300386
- EN50082-1 Part 1
- EN 61000 6-1

Cisco IOS Software Release 15.2(4)M for Cisco 2911, 2921, 2951, 3925, 3925E, 3945, and 3945E ISRs.

Cisco UCS-E Series Servers are covered by a 90-day warranty. Find warranty information on Cisco.com on the [Product Warranties](#) page.

To place an order, visit the [Cisco Ordering homepage](#) and refer to Table 4. To download software, visit the [Cisco Software Center](#).

Ordering Information

UCS-E140S-M1/K9	Cisco UCS E-Series Single-Wide Server Blades, Intel Xeon E3 Quad Core processor, 8GB RAM, 2 SD cards
UCS-E140D-M1/K9	Cisco UCS E-Series Double-Wide Server Blades, Intel Xeon E5-2400 Quad Core processor, 8GB RAM, 2 SD cards
UCS-E140DP-M1/K9	Cisco UCS E-Series Double-Wide Server Blades, Intel Xeon E5-2400 Quad Core processor, 8GB RAM, 2 SD cards, PCIe card
UCS-E160D-M1/K9	Cisco UCS E-Series Double-Wide Server Blades, Intel Xeon E5-2400 Six Core processor, 8GB RAM, 2 SD cards
UCS-E160DP-M1/K9	Cisco UCS E-Series Double-Wide Server Blades, Intel Xeon E5-2400 Six Core processor, 8GB RAM, 2 SD cards, PCIe card
E100S-MEM-UDIMM4G	4GB 1333MHz VLP UDIMM/PC3-10600 2R for SingleWide UCS-E

E100S-MEM-UDIMM4G=	4GB 1333MHz VLP UDIMM/PC3-10600 2R for SingleWide UCS-E, Spare
E100S-MEM-UDIMM8G	8GB 1333MHz VLP UDIMM/PC3-10600 2R for SingleWide UCS-E
E100S-MEM-UDIMM8G=	8GB 1333MHz VLP UDIMM/PC3-10600 2R for SingleWide UCS-E, Spare
E100S-HDD-SAS900G	900 GB, 10k RPM SAS hard disk drive for SingleWide UCS-E
E100S-HDD-SAS900G=	900 GB, 10k RPM SAS hard disk drive for SingleWide UCS-E, Spare
E100S-HDD-SSD200G	200 GB, SAS SLC SSD hard disk drive for SingleWide UCS-E
E100S-HDD-SSD200G=	200 GB, SAS SLC SSD hard disk drive for SingleWide UCS-E, Spare
E100S-HDD-SATA1T	1 TB, 7200 RPM SATA hard disk drive for SingleWide UCS-E
E100S-HDD-SATA1T=	1 TB, 7200 RPM SATA hard disk drive for SingleWide UCS-E, Spare
E100S-HDSASED600G	600 GB, SAS SED hard disk drive, for SingleWide UCS-E
E100S-HDSASED600G=	600 GB, SAS SED hard disk drive, for SingleWide UCS-E, Spare
E100-SD-8G	8 GB SD Card for SingleWide and DoubleWide UCS-E
E100-SD-8G=	8 GB SD Card for SingleWide and DoubleWide UCS-E, Spare
E100D-MEM-RDIMM4G	4GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E
E100D-MEM-RDIMM4G=	4GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E, Spare
E100D-MEM-RDIMM8G	8GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E
E100D-MEM-RDIMM8G=	8GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E, Spare
E100D-MEM-RDIM16G	16GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E
E100D-MEM-RDIM16G=	16GB 1333MHz RDIMM/PC3-10600 2R for DoubleWide UCS-E, Spare
E100D-HDD-SAS900G	900 GB, 10k RPM SAS hard disk drive for DoubleWide UCS-E
E100D-HDD-SAS900G=	900 GB, 10k RPM SAS hard disk drive for DoubleWide UCS-E, Spare
E100D-HDD-SSD200G	200 GB, SAS SLC SSD hard disk drive for DoubleWide UCS-E
E100D-HDD-SSD200G=	200 GB, SAS SLC SSD hard disk drive for DoubleWide UCS-E, Spare
E100D-HDD-SATA1T	1 TB, 7200 RPM SATA hard disk drive for DoubleWide UCS-E
E100D-HDD-SATA1T=	1 TB, 7200 RPM SATA hard disk drive for DoubleWide UCS-E, Spare
E100D-HDSASED600G	600 GB, SAS SED hard disk drive for DoubleWide UCS-E
E100D-HDSASED600G=	600 GB, SAS SED hard disk drive for DoubleWide UCS-E, Spare
E100-PCIE-4PGE	4 port GE, PCIe card, RJ-45 for DoubleWide UCS-E Series
E100-PCIE10GEFCOE	1 port SFP+, PCIe, 10GE fiber, FCoE support, DoubleWide UCS-E

Cisco UCS E-Series Servers hardware support is covered by the Cisco SMARTnet® contract for the router in which the module resides. Cisco SMARTnet technical support is available on a one-time or annual contract basis. Support options range from help-desk assistance to proactive, onsite consultation.

All support contracts include:

- Major Cisco IOS Software updates for protocol, security, bandwidth, and feature improvements
- Full access rights to Cisco.com technical libraries for technical assistance, electronic commerce, and product information
- Access to the industry's largest dedicated technical support staff 24 hours a day

For more information about Cisco services, refer to [Cisco Technical Support Services](#) or [Cisco Advanced Services](#).

Services from Cisco and our certified partners can help you transform the branch-office experience and accelerate business innovation and growth in Cisco Borderless Networks. Cisco has the depth and breadth of expertise to create a clear, replicable, optimized branch-office footprint across technologies. Planning and design services align technology with business goals and can increase the accuracy, speed, and efficiency of deployment. Technical services help improve operation efficiency, save money, and mitigate risk. Optimization services are designed to continuously improve performance and help your team succeed with new technologies. For more information, visit <http://www.cisco.com/go/services>.

For more information about Cisco UCS E-Series Servers, visit <http://www.cisco.com/go/ucse/> or contact your local Cisco account representative.

For more information about Cisco products, contact:

- United States and Canada: 800 553 6387
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- Other: 408 526 7209

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