




APPENDIX **A**

Technical Specifications and Part Numbers

This appendix provides technical specifications and part numbers for the Cisco CDE110.

[Table A-1](#) lists the CDE110 models used with Cisco CDS Video Navigator, Cisco TV Content Delivery System Manager, and Cisco Visual Quality Experience. The CDE110 models that are used for these applications have some hardware components differences. The tables in this appendix provide information on these differences.

Table A-1 CDE110 Model Part Numbers

Content Delivery Applications	CDE110 Model Part Numbers
Cisco TV Content Delivery System Manager	CDE110-2-146TXA-K9 CDE110-2-146TXD-K9
Cisco CDS Video Navigator	 <p>Note The latest CDS Video Navigator and all TV CDSM models use Quad-Core Intel Xeon L5410 processors. Earlier CDS Video Navigator models use Dual-Core Intel Xeon LV 5148 processors.</p>
Cisco Visual Quality Experience	<p>Models that use Quad-Core Intel Xeon L5410 processors: CDE111-2-146TXA-K9 CDE111-2-146TXD-K9</p> <p>Models that use Dual-Core Intel Xeon LV 5148 processors: CDE110-1-036TXA-K9 CDE110-1-036TXD-K9</p>

The following tables provide technical specifications on the CDE110 models:

- [Table A-2](#)—For all Cisco CDS Video Navigator and TV CDSM models, the table lists the component and chassis specifications.
- [Table A-3](#)—For Cisco Visual Quality Experience models that have Quad-Core Intel Xeon L5410 processors, the table lists the component and chassis specifications.
- [Table A-4](#)—For Cisco Visual Quality Experience models that have Dual-Core Intel Xeon LV 5148 processors, the table lists the component and chassis specifications.
- [Table A-5](#)—For all models, the table lists the Cisco CDE110 electrical and environmental specifications.

- [Table A-6](#)—For Cisco CDS Video Navigator and TV CDSM models, the table lists the server and component part numbers.
- [Table A-7](#)—For Cisco Visual Quality Experience models, the table lists the server and component part numbers.

Table A-2 Cisco CDE110 for CDS Video Navigator and TV CDSM: Component and Chassis Specifications

Specification	Description
Microprocessor	Two 64-bit Quad-Core Intel Xeon L5410 processors with 12 MB of shared L2 cache, or two 64-bit Dual-Core Intel Xeon LV 5148 processors with 4 MB of shared L2 cache
Memory	8-GB dual-channel Fully Buffered DIMM (FB-DIMM) technology at 677 MHz. The appliance comes with four 2-GB DIMM modules.
Expansion bays	Drive bays for three hot-swap 2.5-inch SAS HD drives
Expansion slots	Full-height, full-length, 64-bit x 100/66 MHz PCI-X or x8 PCI Express slot
Chipset	<ul style="list-style-type: none"> • Memory controller hub—Intel 5000P Memory Controller Hub (MCH) • I/O controller hub—Intel 6321ESB I/O Controller Hub (ICH)
Hard disk drives	Three 146-GB simple-swap serial attached SCSI (SAS) hard disk drives.
Hardware RAID	Hardware RAID is included on the motherboard.
Optical drive	One combination CD/DVD RW drive
Flash drive	One 4-GB flash drive
Ports supported	<ul style="list-style-type: none"> • Network—Integrated four-port 10/100/1000 Mbps Ethernet. • PS/2—Keyboard and mouse connections • USB 2.0 ports—Three: one front/two rear • COM ports—Two: one front/one rear
Power supply	One 450W AC or DC power supply is standard. A second power supply can be added for redundancy and hot-swapability. Both power supplies must be either AC or DC.
Dimensions	<ul style="list-style-type: none"> • Height—1.70 inches (43.25 mm) • Width—16.93 inches (430 mm) • Depth—20 inches (508 mm)
Weight	Maximum weight: 28 lb (12.7 kg) depending on your configuration

Table A-3 Cisco CDE110 for Visual Quality Experience (Models with Quad-Core Intel Xeon L5410 Processors): Component and Chassis Specifications

Specification	Description
Microprocessor	Two 64-bit Quad-Core Intel Xeon L5410 processors with 12 MB of shared L2 cache
Memory	8-GB dual-channel Fully Buffered DIMM (FB-DIMM) technology at 677 MHz. The appliance comes with four 2-GB DIMM modules.
Expansion bays	Drive bays for three hot-swap 2.5-inch SAS HD drives
Expansion slots	Full-height, full-length, 64-bit x 100/66 MHz PCI-X or x8 PCI Express slot. A PCI Express riser card is installed in the expansion slot, and an Intel PRO/1000 PT Dual Port Server Adapter (with two 10/100/1000 Mbps Ethernet ports) is installed in the riser card.
Chipset	<ul style="list-style-type: none"> Memory controller hub—Intel 5000P Memory Controller Hub (MCH) I/O controller hub—Intel 6321ESB I/O Controller Hub (ICH)
Hard disk drives	One 146-GB simple-swap serial attached SCSI (SAS) hard disk drive
Hardware RAID	Hardware RAID is not used.
Optical drive	One combination CD/DVD RW drive
Flash drive	One 4-GB flash drive
Ports supported	<ul style="list-style-type: none"> Network—Integrated four-port 10/100/1000 Mbps Ethernet. Two additional 10/100/1000 Mbps Ethernet ports on the installed Intel PRO/1000 PT Dual Port Server Adapter. PS/2—Keyboard and mouse connections USB 2.0 ports—Three: one front/two rear COM ports—Two: one front/one rear
Power supply	One 450W AC or DC power supply is standard. A second power supply can be added for redundancy and hot-swapability. Both power supplies must be either AC or DC.
Dimensions	<ul style="list-style-type: none"> Height—1.70 inches (43.25 mm) Width—16.93 inches (430 mm) Depth—20 inches (508 mm)
Weight	Maximum weight: 28 lb (12.7 kg) depending on your configuration

Table A-4 Cisco CDE110 for Visual Quality Experience (Models with Dual-Core Intel Xeon LV 5148 Processors): Component and Chassis Specifications

Specification	Description
Microprocessor	Two 64-bit Dual-Core Intel Xeon LV 5148 processors with 4 MB of shared L2 cache
Memory	4-GB dual-channel Fully Buffered DIMM (FB-DIMM) technology at 677 MHz. The appliance comes with four 1-GB DIMM modules.
Expansion bays	Drive bays for three hot-swap 2.5-inch SAS HD drives
Expansion slots	Full-height, full-length, 64-bit x 100/66 MHz PCI-X or x8 PCI Express slot
Chipset	<ul style="list-style-type: none"> Memory controller hub—Intel 5000P Memory Controller Hub (MCH) I/O controller hub—Intel 6321ESB I/O Controller Hub (ICH)
Hard disk drives	One 36-GB simple-swap serial attached SCSI (SAS) hard disk drive.
Hardware RAID	Hardware RAID is not used.
Optical drive	One combination CD/DVD RW drive
Flash drive	None
Ports supported	<ul style="list-style-type: none"> Network—Integrated four-port 10/100/1000 Mbps Ethernet PS/2—Keyboard and mouse connections USB 2.0 ports—Three: one front/two rear COM ports—Two: one front/one rear
Power supply	One 450W AC or DC power supply is standard. A second power supply can be added for redundancy and hot-swapability. Both power supplies must be either AC or DC.
Dimensions	<ul style="list-style-type: none"> Height—1.70 inches (43.25 mm) Width—16.93 inches (430 mm) Depth—20 inches (508 mm)
Weight	Maximum weight: 28 lb (12.7 kg) depending on your configuration

Table A-5 Cisco CDE110 Electrical and Environmental Specifications

Specification	Description
AC electrical input	<ul style="list-style-type: none"> AC input voltage low range: <ul style="list-style-type: none"> Minimum: 100 VAC Maximum: 127 VAC AC input voltage high range: <ul style="list-style-type: none"> Minimum: 200 VAC Maximum: 240 VAC <p>See also the “If AC Power Supplies Are Installed” section on page 2-7.</p>
DC electrical input	<ul style="list-style-type: none"> DC input voltage range: -48 VDC to -60 VDC <p>See also the “If DC Power Supplies Are Installed” section on page 2-7.</p>

Table A-5 Cisco CDE110 Electrical and Environmental Specifications (continued)

Specification	Description
Temperature	Temperature, operating +5° C to +40° C (41° F to 104° F) Temperature, non-operating -40° C to 70° C (-40° F to 158° F)
Altitude	Altitude 0 to 4,000 m (0 to 13,123 ft) @ 40° C
Humidity	Humidity, operating 5% to 85% Humidity, short-term 5% to 90% operating Humidity, non-operating 95%, non-condensing at temperatures of 23° C (73° F) to 40° C (104° F)
Altitude	Maximum altitude: 6500 ft (2000 m)
Acoustic	Sound pressure: <55dBA at ambient temperatures <24° C measured at bystander positions in operating mode

Table A-6 CDS Video Navigator and TV CDSM: Cisco CDE110 Part Numbers

Part Number	Description
CDE110-2-146TXA-K9	1-RU Cisco CDE110, two Intel Xeon L5410 or LV 5148 processors*, 3 X 146-GB HDD, GE TX, AC power supply, and includes one CDS Video Navigator Content Delivery Application or one TV CDSM Application
CDE110-2-146TXD-K9	1-RU Cisco CDE110, two Intel Xeon L5410 or LV 5148 processors*, 3 X 146-GB HDD, GE TX, DC power supply, and includes one CDS Video Navigator Content Delivery Application or one TV CDSM Application
CDE-PWR-11X-A CDE-PWR-11X-A=	AC power supply for the Cisco CDE110 Spare AC power supply for the Cisco CDE110
CDE-PWR-11X-D CDE-PWR-11X-D=	DC power supply for the Cisco CDE110 Spare DC power supply for the Cisco CDE110
CDE-HDD-SAS-146=	Spare 146-GB SAS hard disk drive
CDE-RCK-EIA19 CDE-RCK-EIA19=	Rack mount kit, EIA 19 inch for the Cisco CDE110 Spare rack mount kit, EIA 19 inch for the Cisco CDE110
CDE-RCK-EIA23ETSI CDE-RCK-EIA23/ETSI=	Rack mount kit, EIA 23 inch and ETSI for the Cisco CDE110 Spare rack mount kit, EIA 23 inch and ETSI for the Cisco CDE110

* The latest CDS Video Navigator and all TV CDSM models use Quad-Core Intel Xeon L5410 processors. Earlier CDS Video Navigator models use Dual-Core Intel Xeon LV 5148 processors.

Table A-7 Visual Quality Experience: Cisco CDE110 Part Numbers

Part Number	Description
CDE111-2-146TXA-K9	1-RU Cisco CDE110, two Quad-Core Intel Xeon L5410 processors, 146-GB HDD, GE TX, AC power supply, and includes one Visual Quality Experience Content Delivery Application
CDE111-2-146TXD-K9	1-RU Cisco CDE110, two Quad-Core Intel Xeon L5410 processors, 146-GB HDD, GE TX, DC power supply, and includes one Visual Quality Experience Content Delivery Application
CDE110-1-036TXA-K9	1-RU Cisco CDE110, two Dual-Core Intel Xeon LV 5148 processors, 36-GB HDD, GE TX, AC power supply, and includes one Visual Quality Experience Content Delivery Application
CDE110-1-036TXD-K9	1-RU Cisco CDE110, two Dual-Core Intel Xeon LV 5148 processors, 36-GB HDD, GE TX, DC power supply, and includes one Visual Quality Experience Content Delivery Application
CDE-PWR-11X-A CDE-PWR-11X-A=	AC power supply for the Cisco CDE110 Spare AC power supply for the Cisco CDE110
CDE-PWR-11X-D CDE-PWR-11X-D=	DC power supply for the Cisco CDE110 Spare DC power supply for the Cisco CDE110
CDE-HDD-SAS-146=	Spare 146-GB SAS hard disk drive
CDE-RCK-EIA19 CDE-RCK-EIA19=	Rack mount kit, EIA 19 inch for the Cisco CDE110 Spare rack mount kit, EIA 19 inch for the Cisco CDE110
CDE-RCK-EIA23ETSI CDE-RCK-EIA23/ETSI=	Rack mount kit, EIA 23 inch and ETSI for the Cisco CDE110 Spare rack mount kit, EIA 23 inch and ETSI for the Cisco CDE110