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Refurbished CISCO SB-24EP800-2U3 Datasheet

CISCO > VIDEO

Cisco Content Delivery Engine Series

Features and Benefits

Feature	Benefit
Industry-leading MPEG2TS stream density	With up to 10,000 MPEG2 standard-definition (SD) streams in 2 rack units (2RU), the Cisco CDE 280 Dense TV Streamer offers industry-leading video streaming density (5000 SD streams per RU). This translates to more than 220,000 MPEG2 SD streams served in a single rack, optimizing space requirements and reducing total ownership costs.
High-performance processing	Sixteen CPUcores promote high performance for computationally intensive tasks such as sustained live video streaming operations, extensive high concurrency of VoD requests, or per-stream targeted ad insertion.
High-performance content acquisition	Cisco CDE 280 combined with the VDS-TV CDA software applications can simultaneously ingest a high amount of streams, providing highly scalable content acquisition of real-time live channels for time-shift TV and live services.
High-performance throughput	CDE 280 is the leading appliance in the market that includes 8 x 10 Gigabit Ethernet SFP+, allowing outstanding streaming performance in a 2RU form factor, for both VoD and live applications. The high density of 10 Gigabit Ethernet ports powered by the VDS-TV software application provides optimal load balancing during peak hours of video consumption, so service providers can deliver the highest quality of experience (QoE) to their subscribers.
Centralized or hierarchical architecture	Designed to increase flexibility, Cisco CDE 280 can be deployed in hierarchical or centralized architectures, which allow service providers to increase the efficiency of video distribution and delivery.
Flash memory SSD technology	Flash memory SSD technology for high-availability VoD streaming. The technology is used for video cache and transaction logging to lower operating costs and lay the foundation for even better performance and scale. Cisco optimized the CDE 280 to provide outstanding performance for VoD content delivery.
SATA SSD boot drive	Two 480-GB boot drives help ensure reliable bootup operations with dedicated capacity for day-to-day system operation.
Cisco 12-Gbps SAS modular RAID controller	Cisco 12Gbps modular RAID PCIe Gen 3.0 controller provides enterprise-class data protection for up to 24 SAS SSDs. It includes a configurable DDR3 cache memory with 2-GB flash-backed write cache (FBWC).
Dual-port management access	Dual dedicated 1 Gigabit Ethernet management ports are available, in addition to the ingest, fill, and streaming ports, to simplify connectivity and manageability.
Security features	An optional locking bezel can be mounted to the front of the chassis to prevent unauthorized access to the drives.
High-efficiency redundant power supply	The Cisco CDE 280 base systems support either AC or DC high-efficiency power supplies for lower power consumption and a simplified sparing strategy, with the option for redundant dual supplies.
Nonstop service availability	Unique failover and resiliency features help ensure that hardware failures do not bring down the network and cause service outages.
Logical server arrays	VDS-TV resource pooling and load balancing allow Cisco CDEs to be networked into logical server arrays that can provide effectively unlimited amounts of content storage (content library array), content cache (caching node array), and streaming capacity (streamer array) throughout the network. Additional streaming or storage capacity can be added to the array without outages or service interruption. Cisco VDS-TV detects the addition or removal of Cisco CDEs from the logical array and optimally load balances the entire resource pool. Independent scaling of the content library size and stream count allows flexibility in capital expenditures.
Multifunction capabilities	Cisco CDE 280 models are built on a selected base system with minor differences among the available configurations, simplifying personnel training and equipment-sparing strategies.
Flexibility	Cisco CDE 280 offers a flexible cache storage bundle structure, supporting storage upgrade paths and server repurposing opportunities.

Technical Specifications for the Cisco CDE 280

Description	
Description	Cisco CDE 280
Rack units	2
Storage	Flash memory SSD technology: 12 x 480-GB EV SATA SSD 24 x 400-GB EP SAS SSD 24 x 480-GB EV SATA SSD 24 x 800-GB EP SAS SSD Refer to the model-specific details in Table 1
Memory	96-GB DDR4 SDRAM
Processors	Two Intel Xeon processors 3.20 GHz E5-2667 with a total of 16C
RAID controller	Cisco 12Gbps modular RAID (PCIe Gen 3.0) controller provides enterprise-class data protection for up to 24 SAS HDDs or SSDs
Network interfaces	Eight 10 Gigabit Ethernet of SFP media module SFP+ options: Short-reach (SR) fiber optic: 850 nm Long-reach (LR) fiber optic: 1310 nm CX-1 Twinax copper: 1, 3, and 5m
Management interfaces	Two onboard copper Gigabit Ethernet ports: 10/100/1000 Mbps
Additional rear connectors	Additional interfaces including a video graphics array (VGA) port (DB-15 connector), an RJ45 serial port, 1 Gigabit Ethernet host management port: Cisco Integrated Management Controller, and grounding lug holes (for DC power supply)
Rail kit options	Cisco ball bearing rail kit with optional reversible cable management arm
Front-panel connector	KVM console connector (supplies 2 USB 2.0, 1 VGA, and 1 serial connector)
Power supplies	Hot-plug, redundant 930W -48 DC or 1200W AC power supplies
Operating humidity (RH)	10 to 90%, noncondensing at 82°F (28°C)
Nonoperating humidity (RH)	5 to 93% at 82°F (28°C)
Operating temperature	41 to 95° F (5 to 35° C) Derate the maximum temperature by 1°C per every 1000 ft. (305m) of altitude above sea level
Nonoperating temperature (when the server is in storage or is being transported)	-40 to 149°F (-40 to 65°C)
Dimensions (H x*W x D) * Including slam latches	
Dimensions (H xW x D) Including slam latches	3.43 x 17.65 x 29.0 in. (8.70 x 44.8 x 73.8 cm) 3.43 x 18.96 x 30.18 in. (8.70 x 48.2 x 76.6 cm): width and depth, including handles
Clearance: front, side, rear	3 in., 1 in., and 6 in.
Weight (fully configured)	62.7 lb (28.4 kg)
Regulatory compliance	Product should comply with CE markings per directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition AS/NZS 60950-1 GB4943 2001
EMC - Emissions	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A
EMC – Immunity	EN55024 CISPR24 EN300386 KN24

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