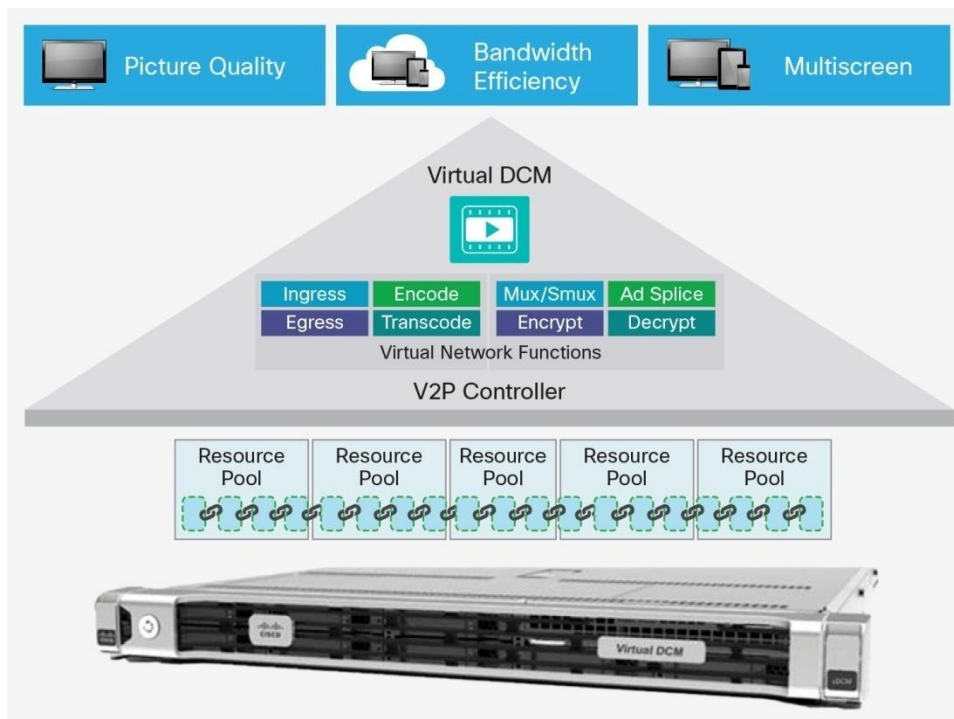


Cisco Virtual DCM Appliance Rack Server



Product Overview

The Cisco® Virtual Digital Content Manager (Virtual DCM) represents a new generation of virtualized and software-based video processing, providing advanced video, audio, and metadata processing for live multiformat video delivery. It enables broadcasters, content providers, and service providers to deliver best-in-class viewing experiences while meeting their service requirements for premium picture quality, bandwidth efficiency, and multiscreen transcoding.

The Cisco Virtual DCM rack-based server delivers the highest-quality encoding using market-leading H.264 encoding or full-frame High-Efficiency Video Codec (HEVC) technology developed by Cisco.

The Cisco Virtual DCM encoder and transcoder is a fully optimized solution on the Cisco Unified Computing System™ (Cisco UCS®) server platform. It enables you to encode from up to 8 HD baseband video feeds, or up to 16 SD baseband video feeds, as well as transcode from compressed video feeds on IP interfaces.

The Virtual DCM comes with an easy-to-use interface, simplifying the configuration of video processing functions across your video sources, and is supported by the [Cisco Video Service Manager](#) (VSM), which enables you to easily provision Virtual DCM instances and even have service portability between the physical DCM and the software-based Virtual DCM.

For detailed information about the various video functions supported on the Virtual DCM rack-based server, please refer to the [Virtual Digital Content Manager application data sheet](#).

Product Specifications

Table 1 lists specifications for the Cisco Virtual DCM.

Table 1. Product Specifications

SDI Inputs	
Physical SDI interface: <ul style="list-style-type: none"> Two options 	<ul style="list-style-type: none"> Option 1: Input interfaces: 4 x DIN 1.0/2.3 BNC, 75-ohm, break-out cables to standard BNC included <ul style="list-style-type: none"> Input SDI format: SMPTE 424M Level-A or Level-B, 1080p (up to 60 fps) Input HD-SDI format: SMPTE 292M, 1080i or 720p (up to 60 fps) Input: SD-SDI format: SMPTE 259, 480i/29.97 or 576i/25 fps LTC Input on break-out cable Option 2: 1 or 2 interfaces with each: 8 x DIN 1.0/2.3 BNC, 75-ohm, break-out cables to standard BNC included <ul style="list-style-type: none"> Input HD-SDI format: SMPTE 292M, 1080i or 720p (up to 60 fps) Input: SD-SDI format: SMPTE 259, 480i/29.97 or 576i/25 fps LTC Input on DIN 1.0/2.3 BNC, 75-ohm, break-out cables to standard BNC included
High definition	<ul style="list-style-type: none"> HD 1920 x 1080, or 1280 x 720 Frame rates <ul style="list-style-type: none"> CBR and ABR: 24, 25, 29.97, 30, 50, 59.94, and 60 fps
Standard definition	<ul style="list-style-type: none"> SD 720 x 480i/29.97 or 720 x 576i/25
Audio	<ul style="list-style-type: none"> Embedded audio: SMPTE 299M, up to 8 stereo pairs: PCM or pre-compressed (DD/DD+)
IP Inputs/Outputs	
IP interface <ul style="list-style-type: none"> Two options 	<ul style="list-style-type: none"> Option 1: Quad GbE IP card in the mLOM (modular LAN-on-motherboard) slot Option 2: Dual 10Gb in the mLOM (modular LAN-on-motherboard) slot
Redundancy	
	<ul style="list-style-type: none"> An N:M redundancy with either IP or with SDI (SD or HD) including SDI-router control is supported by the Cisco Video Service Manager (VSM)
Certifications	
Safety	<ul style="list-style-type: none"> UL 60950-1: No. 21CFR1040 Second Edition CAN/CSA: C22.2 no. 60950-1 Second Edition IEC 60950-1 Second Edition EN 60950-1 Second Edition ASINZS 60950-1 GB4943 2001
EMC	<ul style="list-style-type: none"> FCC (CFR 47, Part 15) Class A AS/NZS CISPR22 Class A CISPR2 2 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS 13438 Class A
Physical	
Physical and power	<ul style="list-style-type: none"> Dimensions (H x W x D) 1.7 x 16.9 x 31 in. (4.32 x 43 x 78.7 cm) (1 rack unit [1RU]) 770W power supply (optional redundant power supply available) AC input voltage range 90 to 264 VAC (self-ranging, 100 to 240 VAC nominal) AC input frequency range: 47 to 63 Hz (single phase, 50 to 60 Hz nominal) <ul style="list-style-type: none"> AC line input current (typical) 5.50A at 100 VAC/2.64A at 208 VAC AC line input current (maximum 100% CPU load) 6.16A at 100 VAC/2.96A at 208 VAC Connectivity: two 1-Gbps Ethernet ports (10/100/1000BASE-T Ethernet)

Product Name	Part Number
<p>These options are configurable as part of the online ordering process.</p> <p>Virtual DCM Software – installed from factory:</p> <ul style="list-style-type: none"> Virtual DCM Software Package <ul style="list-style-type: none"> Virtual DCM Base License Appliance <p>Virtual DCM Encoding and Transcoding Licenses – options enabling Xcode functionality</p> <ul style="list-style-type: none"> Virtual DCM XCODE Usage License (1 / rack) Video encode of transcode credits Audio encode or transcode credits (in increments of 8 stereo pairs) 	<p>SW-VDCM-Vxx-K9</p> <p>L-VDCM-BASE-APP</p> <p>L-VDCM-XCODE-USE</p> <p>L-VDCM-V-XCODE-P2</p> <p>L-VDCM-A-XCODE-P1</p>

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