Datasheet

VidyoRouter™

Scalable multipoint video conferencing

VidyoRouter™ is an essential component of the VidyoConferencing™ infrastructure. VidyoRouter uses our patented Adaptive Video Layering™ technology to perform transcode-free packet switching over common IP networks. The result is high-quality multipoint video conferencing that is dynamically optimized for each endpoint, unencumbered by delay and free from broken images. Dramatically more efficient than legacy MCU equipment, each VidyoRouter can support up to 100 simultaneous HD connections; to increase capacity, simply deploy a VidyoRouter XL (up to 150 HD connections), or additional physical or virtual instances of VidyoRouter anywhere in the network. This smarter infrastructure improves the overall video conferencing experience and reduces the cost of ownership, making for effective and affordable large-scale deployments.

Key Features

Version 3.1

Quality and Performance

- Dynamic adaption to both degradation and recovery of each participant's network link
- Supports native rate and resolution matching per endpoint, up to 1440p/60fps
- Sustains conferences even during periods of high packet loss (up to 20 percent)
- Delivers HD quality over low-bandwidth connections (as low as 384 kbps)
- Imperceptible latency of less than 20 ms - 10x lower than transcoding MCU
- Supports Multipoint Content, where multiple participants share content at the same time
- Secures signaling links by TLS and media streams through SRTP

Deployment Flexibility

- Available as a physical or a virtual appliance
- Extends system capacity with additional networked VidyoRouter instances
- Supports distributed network deployment models for bandwidth savings through traffic localization and simplified firewall traversal
- Supports all types of endpoints, including room-based, desktop and mobile devices
- Interoperates with legacy systems via the VidyoGateway™ appliance or the VidyoWay™ interconnectivity service

Low Cost of Ownership

- Reduces total cost of ownership by 90% compared with MCU-based systems
- Small footprint: a 1U physical appliance supports up to 100 HD connections...and up to 150 on VidyoRouter XL
- Cascades without transcoding to host very large conferences (150+ participants)
- Maximizes asset utilization with "follow-the-sun" floating capacity licenses
- Reliable performance on general-purpose IP networks extends reach to remote and mobile participants, and eliminates the need for expensive QoS-enhanced links
- Central reporting on utilization and conference details with the free VidyoDashboard™ virtual appliance

VidyoRouter Virtual Edition (VE)

- Same performance and capabilities as the physical VidyoRouter appliance, verified by VMware®
- Easy to deploy, manage, and scale
- Available in two capacities: VidyoRouter VE 100 and VidyoRouter VE 25
- 12-25X more resource-efficient than the typical soft or virtualized MCU
- Certified "VMware Ready"

Specifications

	VidyoRouter™	VidyoRouter™ XL	VidyoRouter™ VE
Capacity	100 concurrent HD connections	150 concurrent HD connections	VidyoRouter VE 100: 100 concurrent HD connections VidyoRouter VE 25: 25 concurrent HD connections
Performance	Resolutions and frame rates up to 1440p60, optimized for each endpoint's capabilities and local network conditions in a multipoint conference		
Power Supply	**Input**: 100-240v ~, 4-2A, 50-60Hz **Output**: 250W Non-Redundant (auto-ranging) **Consumption**: 69W (idle), 86W (full load) **Dissipation**: 112 BTU (idle), 300 BTU (full load)	**Input**: 100-240v ~, 3.5A, 50-60Hz **Output**: 2x 550W Redundant (auto-ranging, Platinum efficiency) **Consumption**: 112W (idle), 210W (full load) **Dissipation**: 245 BTU (idle), 645 BTU (full load)	**Hypervisor** VMWare® ESXi 5.0 or higher
Physical	**Dimensions** (HxWxD) without ear and bezel: **Height**: 1.67" (42.6 mm) **Width**: 15.5" (393.7 mm) **Depth**: 17.1" (431 mm) **Weight**: 17.76 lbs (8.058 kg) **Form Factor**: 1U Rack mount (ReadyRails™ static rails included)	**Dimensions** (HxWxD) without ear and bezel: **Height**: 1.69" (42.8 mm) **Width**: 17.09" (434.0 mm) **Depth**: 25.28" (642.3.1 mm) **Weight**: 43.87 lbs (19.9 kg) **Form Factor**: 1U Rack mount (ReadyRails™ sliding rails included)	**Host Server Requirements** Intel-based servers with a minimum Xeon 56xx Series at 2.4 GHz or faster, supporting Intel Westmere (or newer) architecture, with AES-NI and hyper-threading enabled; 1 Gbps NIC
Network	2x RJ45 LAN ports: 100BASE-TX and 1000BASE-T		**Resource Allocation** VidyoRouter VE 100: 8 vCPU, 8GB vRAM, 20 GB vDisk VidyoRouter VE 25: 4 vCPU, 4 GB vRAM, 20 GB vDisk
Environment	Operating Temperature (for altitude ≤ 900m or 2952.75ft): 10°C to 35°C (50°F to 95°F) Non-Operating Temperature: -40 to 65˚ C (-40 to 149˚ F) Operating Humidity Range: 10% to 90% (non-condensing) Non-Operating Humidity Range: 5% to 95%		**Resource Reservation** VidyoRouter VE 100: 18 GHz CPU, 5 GB RAM VidyoRouter VE 25: 9 GHz CPU, 4 GB RAM
Regulatory	**Safety:** EN 60950-1:2006, A11:2009 / IEC 60950-1:2005 ed2 **EMC:** EN 55022:2006 +A1:2007 / CISPR 22:2005 +A1:2005 +A2:2006 EN 55024:1998 +A1:2001 +A2:2003 / CISPR 24:1997 +A1:2001 +A2:2002 EN 61000-3-2:2006 +A1:2009 +A2:2009 / IEC 61000-3-2:2005 +A1:2008 +A2:2009 EN 61000-3-3:2008 / IEC 61000-3-3:2008 Australia C-TICK Class A; Argentina IRAM; Canada NRTL ICES Class A; China CCC Class A; Croatia KONCAR Class A; European Union CE Class A; Germany TUV IECEE IECEE CB; Israel SII Class A; Japan VCCI Class A; Mexico NOM; Moldova INSM Class A; Nigeria SONCAP; Norway NEMKO Class A; Russia GOST Class A; South Africa NRCS SABS Class A; South Korea KC Class A; Taiwan BSMI Class A; United States NRTL FCC Class A; Vietnam ICT Class A.	**Safety:** EN 60950-1:2006 / IEC 60950-1:2005 ed2 **EMC:** EN 55022:2006 +A1:2007 / CISPR 22:2005 +A1:2005 EN 55024:1998 +A1:2001 +A2:2003 / CISPR 24:1997 (modified) +A1:2001 +A2:2002 EN 61000-3-2:2006 / IEC 61000-3-2:2005 (Class D) EN 61000-3-3:1995 +A1:2001 +A2:2005 / IEC 61000-3-3:1994 +A1:2001 +A2:2005 Australia C-TICK Class A; Argentina IRAM; Canada NRTL ICES Class A; China CCC Class A; Croatia KONCAR Class A; European Union CE Class A; Germany TUV IECEE IECEE CB; Israel SII Class A; Japan VCCI Class A; Mexico NOM; Moldova INSM Class A; Nigeria SONCAP; Norway NEMKO Class A; Russia GOST Class A; South Africa NRCS SABS Class A; South Korea KC Class A; Taiwan BSMI Class A; United States NRTL FCC Class A; Vietnam ICT Class A.	Virtual appliance certified "VMware Ready"

Vidyo®
www.vidyo.com

Vidyo, Inc. (Corporate Headquarters)
433 Hackensack Ave., Hackensack, NJ 07601, USA
Tel: 201.289.8597 Toll-free: 866.998.4396
Email: vidyoinfo@vidyo.com

EMEA	APAC	INDIA
emea@vidyo.com	apac@vidyo.com	india@vidyo.com
+33 (0) 488 718 823	+852 3478 3870	+91 124 4111671

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DS-VROUT-3.1_022014