

Mandatory Requirements

VCAST Streaming Server 5800R-RN (VC-SR5800R-RN)

General Features:

- Support high-quality video/audio broadcast at various bit-rates for multiple devices (PC, TV via VBOX or Windows Mobile)
- Support live and on-demand video / audio broadcasting via any TCP/IP networks
- Highly scalable and expandable from small to large scale of streaming
- Ease of support and maintenance with remote management
- Support latest streaming technologies for best user experience over Internet, Intranet or Wireless
- Reliable for 7/24 operation with high availability and backup options
- Support publishing, re-broadcasting and content delivery via Vcast Network for global broadcasting (optional at charge-basis)
- Fully compatible and managed by Vcast Content Management System
- Provided by Certified Windows Media Hardware Product Vendor (Integrated Capture/Encoding Solutions and Appliances) listed in
- <u>http://www.microsoft.com/windows/windowsmedia/service_provider/Hardware/default.aspx#capture</u>
 Provided by Certified Windows Media Software Product Vendor (Software/Content Management) listed in

http://www.microsoft.com/windows/windowsmedia/service_provider/Software/default.aspx#content

Streaming Features:

- Support and compatible with Windows Media 6, 7, 8, 9, SMPTE VC-1, MP3, RealAudio, RealVideo, Quick Time, AAC and AAC+ formats
- Support unlimited* no. of broadcasting channels
- Support "Fast Streaming" capabilities which can effectively eliminate buffering time, and reduce the playback interruptions due to network conditions. Features like Fast Start, Fast Cache, Fast Recovery, and Fast Reconnect provide an always-on viewing experience by streaming content with minimal buffering and down-time, even over high latency network connections such as wireless and satellite.
- Support instant-on/always-on playback which can dramatically improves streaming reliability, responsiveness user experience and virtually eliminating annoying buffering delays and interruptions when playing digital media content
- Support Advanced Fast Start, Advanced FF/RW, and Play While Archiving (for Windows Media Player v10 or above only)
- Support Unicast / Multicast streaming and rollover from multicast to unicast automatically
- Provides simplified, flexible administration with increased reliability, security and scalability
- Support multiple streams failover and redundancy
- Support Internet authentication method (Digest, Kerberos or NTLM, NTFS ACL, Anonymous access
 or IP Address) and Vcast authentication plug-in(s) for integration with 3rd parties
- Support traffic management and logging
- Support wireless adaptive streaming with enabled forward error correction (FEC)
- Support redistribution via Vcast Streaming Server, Vcast Network or Content Delivery Network (CDN) model using Vcast CDN add-on module (optional)

VCAST Content Management (VCM) Lite Features:

Video search and brow	sing	
General features:		Each video clip should contains at least the following information in
	t	heir profile:
	-	Title
	-	Description
	-	Keywords
	-	Author
	-	Copyright
	-	Bandwidth
	-	Duration
	-	File size

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Mandatory Requirements
Video duration can be auto-detected by the VCM
Local Database (Size up to 4GB limit)
Support at least 100 MB file size or above using web-based interference by UTTP proceeds (TOP proceeds on 2000)
interface by HTTP protocol (TCP port 80 or 8080)
 Progress status bar shows during file upload for the uploading status Video clips will not be published to public until the approval of
authorized users
Support multiple criteria searching of video clips by the fields of
video profile including title, description, keywords, author, copyright,
bandwidth, duration and file size
 Support video preview by unicast on-demand streaming model
• Support sorting in order for searching results (e.g. by title, duration,
etc.)
Video clips can be selected and deleted by authorized users
 Video clips can be deleted in batch mode (i.e. delete multiple video by a simple click)
by a simple click)
Support unlimited* of channels
Support Unicast streaming*
Administrator can create channel(s) which contains live or on-
demand video streams
• Information and the scheduled content of the channel can be edited
by authorized users
Channels can be deleted by authorized users
ns
RTSP, HTTP
 Unicast, Multicast (Support Rollover to Unicast)
Streaming Cache and Proxy
Wireless adaptive streaming
Re-broadcast from Vcast Streaming Servers or Vcast Streaming
Encoders
Optional Add-on Module:Vcast CDN (Content Delivery Network)
 2,000 live concurrent streams for up to 600Mbps throughput
 500-1000 on-demand streams for up to 200Mbps throughput
Unlimited*
• Windows Media 6, 7, 8, 9, SMPTE VC-1, MP3, RealAudio,
RealVideo, Quick Time, AAC and AAC+ formats
• Fast Start, Fast Cache, Fast Recovery, Fast Reconnect, Instant-
on/Always-on, Advanced Fast Start, Advanced FF/RW and Play
While Archiving
Digest, Kerberos or NTLM, NTFS ACL, Anonymous access or IP
Address
Vcast authentication plug-in(s) for integration with 3 rd parties
Support multiple sources from Vcast Streaming Encoder and
 Support multiple sources from Vcast Streaming Encoder and switch over automatically
 Support multiple sources from Vcast Streaming Encoder and switch over automatically Support resilience and failover
 Support multiple sources from Vcast Streaming Encoder and switch over automatically Support resilience and failover Support Unicode or ANSI characters
 Support multiple sources from Vcast Streaming Encoder and switch over automatically Support resilience and failover Support Unicode or ANSI characters Support specified logging cycle period
 Support multiple sources from Vcast Streaming Encoder and switch over automatically Support resilience and failover Support Unicode or ANSI characters Support specified logging cycle period Player connections
 Support multiple sources from Vcast Streaming Encoder and switch over automatically Support resilience and failover Support Unicode or ANSI characters Support specified logging cycle period

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	 Bandwidth per stream per player
	 Bandwidth per outgoing distribution stream
	Connection rate
	Player timeout inactivity
	Connection acknowledgement
	Incoming bandwidth
	Fast Start bandwidth per player
	Fast Cache content delivery rate
Hardware Specification	S
Processor:	Quad Core Intel® XEON E5405A or above
Memory:	2 x 1GB ECC Fully Buffered DDR2 RAM
,	Main Storage:
	 5 x 146GB SAS hot-plug HDD in RAID 5
	Configurable to support H/W RAID 0, 1,1E, 5, 5EE, 6, 10, 50, 60,
Storage Capacity:	JBOD
	Optical Drive
	(DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW)
	Optional Upgrades:
	 External USB Floppy Disk Drive
Network Interface:	 2 x 10/100/1000Mbps Ethernet (RJ45, Copper)
Power Input Voltage:	 115 VAC (90 to 132 VAC related input) or 230 VAC (180 to 264
	VAC related input)
Output Power:	 2+1 650W hot-swap redundant power supply
Keyboard & Mouse:	Wired keyboard and mouse
Chassis Enclosure and	3U 19' inch rack-mountable chassis
Dimension:	660 x 430 x 132 (D x W x H) mm
Preinstalled OS & Software:	Microsoft® Windows Server 2008 Standard Edition (64 bits)
	Microsoft® Windows Media Services 9.5
	Helix Server Unlimited
	 Microsoft® Windows Media Player 11
	Remote control tools for remote administration via TCP/IP