

AVerMedia

AVerCaster HEVC RS9280

4K HEVC Quad Link 3G-SDI



Highlights

- High performance input signal
 - Max. 1 x 4K Quad Link 3G-SDI input supported
- High-quality encoding capability
 - HEVC, H.264, AAC and MP3 video and audio codecs supported
- Intuitive user interface
 - Visualized Web UI for capture devices to handle signal inputs
- Cost-effective solution for OTT and IPTV services
- Single source encoded to multi-screen streams
- Proven platform reliability
- Power, network and channel redundancy

Video capturing, encoding and streaming for OTT and IPTV require live broadcasting capabilities of TV programs and 4K video to a wide viewership over available networking environments. The AVerCaster HEVC RS9280 meets the stringent requirements and extends the function offerings by including bit rate and resolution configuration, and multiple encoding options to fully optimize the viewing quality as demanded by a wide range of applications. Additionally, AVerCaster HEVC RS9280 supports Adobe® Flash, Apple's HTTP Live Streaming (HLS) and the 3rd Generation Partnership Project (3GPP) standard to increase the broadcasting reach to computer and mobile device viewers.

In order to enhance the RS9280 convenience as a head-end device, AVerMedia has developed an intuitive management webpage with remote monitoring functions, easy to use with no additional technical skills required. The AVerCaster HEVC RS9280 is designed to keep managerial costs to a minimum without sacrificing high video quality, extendibility and durability.

Single Input Source to Multi-screen Streams

- Supports single source encoded for multiple output streams for various client devices
- Compatible with standard video streaming protocols for OTT and IPTV applications
- High-quality Encoding
- Capable of encoding video in HEVC, H.264 or MPEG-4, the major formats for the OTT and IPTV industries
- Allows resolution and output data rate configurations to meet different requirements
- Supports HEVC, MPEG-4, H.264/ AAC, H.264/ MP3, H.263/ AMR, AAC, and MP3 video and audio codecs
- Integrates HEVC and Flash formats, allowing end users to watch ultra high quality video on the web

Proven Reliable Technology

- Built-in web-based server for cross-platform remote control AVerMedia's capture expertise and quality technical support ensures the device reliability during long-term video streaming

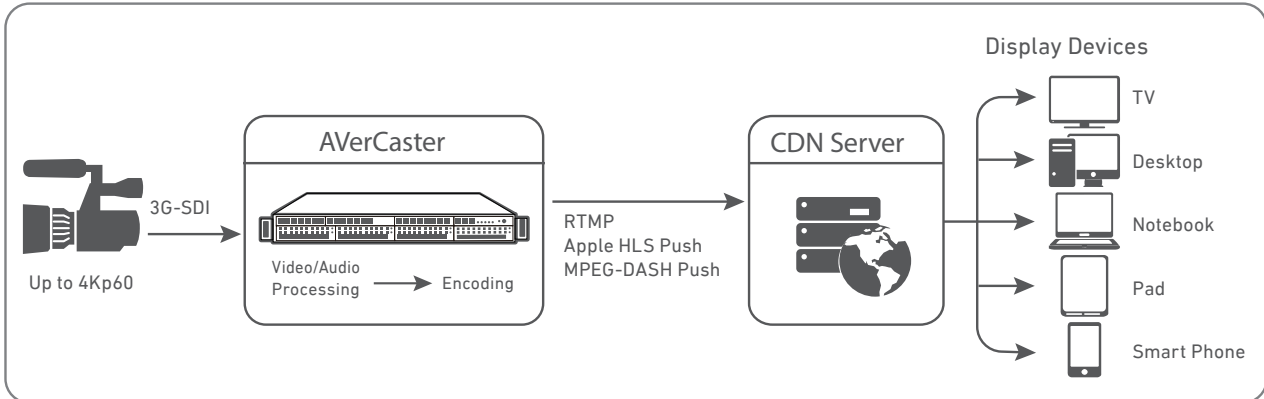
SW backup solution

- Recovery disk and configuration reset can return the server to default settings
- All profile, streaming and server settings can be exported for backup

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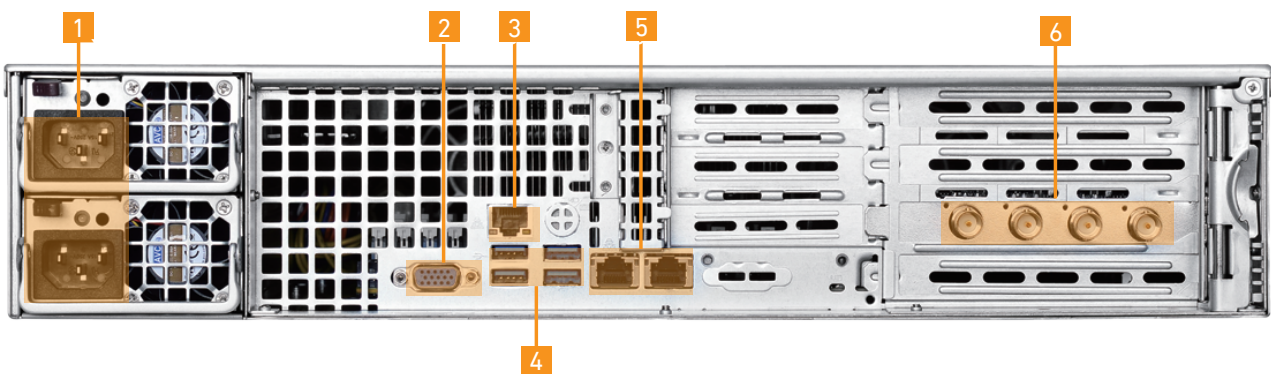
Workflow



Platform Specification

Input Signal	Input Interface	3G SDI
	Max. Input Channels	1-Channel 4K/Quad Link; 4-Channels Full HD/3G-SDI
Physical	Dimensions (W x H x D)	437 x 89 x 648 mm / 17.2" x 3.5" x 25.5"
	Weight	23.7 kg / 52.3 lbs.
Power	Voltage	100V-240V AC, 60-50 Hz, 9-3.5
	Power Consumption	Redundant Power 750 W
Environment	Operating Temperature	10°C ~ 35°C (50°F ~ 95°F)
	Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
	Humidity Tolerance	5% ~ 95% @ 40°C (Non-condensing)

Appearance



- 1 Power
- 3 IPMI
- 5 LAN Port x 2
- 2 VGA output
- 4 USB 3.0 x 4
- 6 SDI x 4

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Encoder Specifications

Input Source	Video Input	4Kp60, 4Ki60, 1080p60, 1080i60, 1080p50, 1080i50, 1080p30, 1080p25, 720p60 and below, auto sensing
Codecs	Video Codecs	HEVC/H.265 Main Profile, Main 10 Profile MPEG-4 AVC/H.264 High Profile, Main Profile, Baseline Profile MPEG-2 Main Profiles, Simple Profile
	Audio Codecs	MPEG-1 Layer II MPEG-2 AAC-LC, HE-AAC v1, HE-AAC v2
Preprocessing	Video Preprocessing	De-interlacing Watermark Image Cropping/Resizing Frame Rate Conversion Frame Rate Decimation BT.601/BT.709 Color Space Conversion Picture-in-Picture*
	Audio Preprocessing	Resampling Loudness Correction
	Ad Management	Insertion* Replacement* Scheduling*
Video Encoding Mode	Rate Control	CBR VBR ABR
	Frame Control	IDR-Frame Strategy Control
	Data Rate	HEVC: 100kps-40Mbps H.264: 10Kbps-20Mbps MPEG-2: 10Kbps-40Mbps
	GOP	Fixed Closed Adaptive
	Key Frame	5-300
	Scene Cut Detection	Automatic
	Encode Mode	Progressive / MBAFF / CABAC / CAVLC
Output Stream	Encode Stream	Up to 4Kp60
	Resolution	3840x 2160, 1920x1080,1760x990, 1600x900, 1440x810, 1280x720, 1024x576, 864x486, 720x576, 704x576, 640x576, 544x576, 480x576, 352x576, 960x540, 852x480, 720x480, 704x480, 640x480, 544x480, 480x480, 352x480, 480x360, 640x360, 352x288, 384x288, 480x270, 320x240, 320x180, 240x160, 176x144, 128x96, 96x96, 120x90, 160x90
	IP Version	IPv4 IPv6
	Protocol	HTTP MPEG2-TS (Support TR 101 290) RTSP RTMP RTP over UDP (Unicast & Multicast) RTP over TCP (Unicast & Multicast) Apple HLS Adobe HTTP Dynamic Streaming* Microsoft Smooth Streaming* MPEG-DASH Push
Redundancy	Components	Server / Channel / Network / Power / N+M*
Alert	Server	Power Redundant Alert* Network Redundant Alert*
	Channel	Channel Redundant Alert*
CDN	Compatibility	Akamai Wowza Amazon Web Service

* All product specifications are subject to change without notice.

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AVerCaster Web UI



1	Broadcast List	Manage streaming status
2	Configuration	Configure video source inputs and streaming outputs
3	Encoding Profile	Preset encoding profiles for easy streaming control
4	Redundancy	Manage server redundancy and channel redundancy
5	Watermark	Overlay specific watermark on screen
6	Log	Log management
7	Administration	Account management
8	Visualized Video Inputs	Intuitive UI to manage capture interfaces
9	System Status	Monitor CPU, memory and throughput statuses

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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