# AVerCaster HEVC RS9280

## 4K HEVC Quad Link 3G-SDI

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
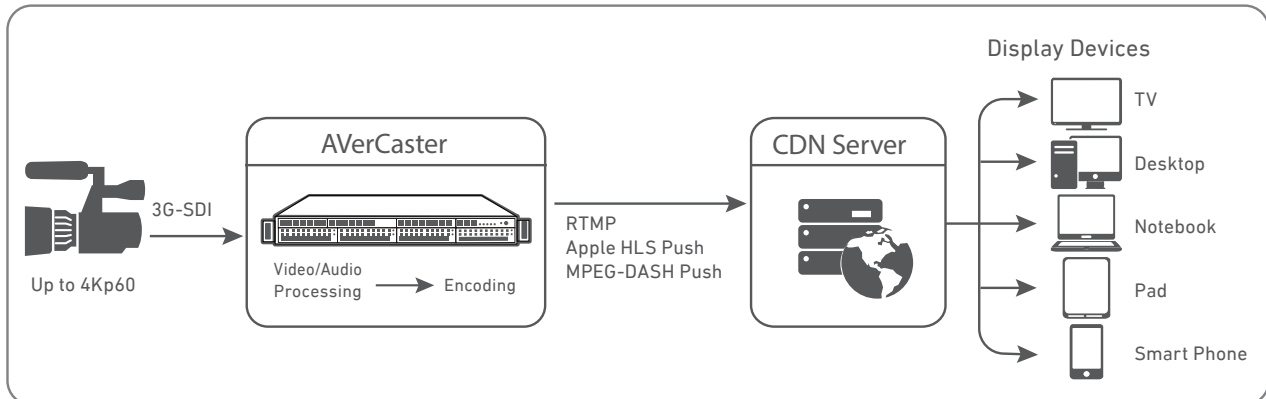
**SW backup solution**

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

## 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

# AVerCaster Premium RS9280
**4K HEVC Quad Link 3G-SDI**

## 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
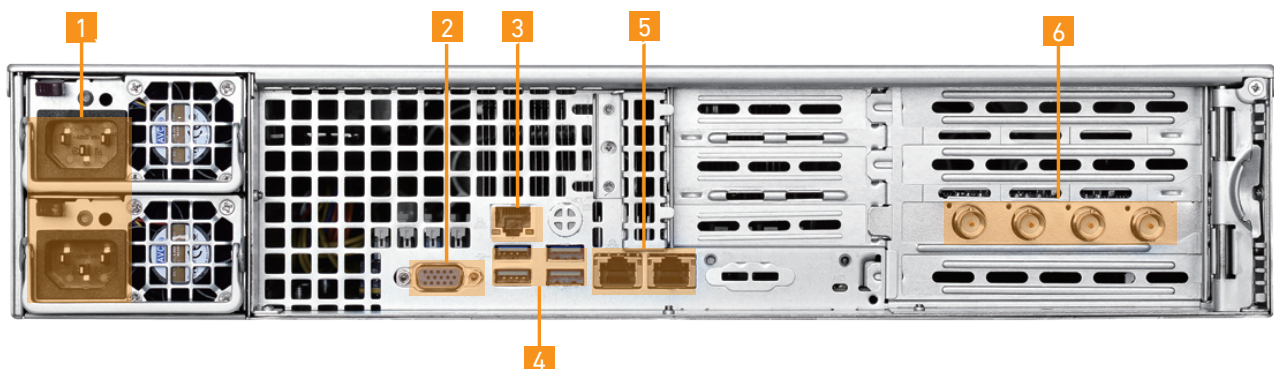


| 1 | Power | 3 | IPMI | 5 | LAN Port x 2 |
|---|---|---|---|---|---|
| 2 | VGA output | 4 | USB 3.0 x 4 | 6 | SDI x 4 |

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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<br>MPEG-4 AVC/H.264 High Profile, Main Profile, Baseline Profile<br>MPEG-2 Main Profiles, Simple Profile |
| | Audio Codecs | MPEG-1 Layer II<br>MPEG-2<br>AAC-LC, HE-AAC v1, HE-AAC v2 |
| **Preprocessing** | Video Preprocessing | De-interlacing<br>Watermark<br>Image Cropping/Resizing<br>Frame Rate Conversion<br>Frame Rate Decimation<br>BT.601/BT.709 Color Space Conversion<br>Picture-in-Picture* |
| | Audio Preprocessing | Resampling<br>Loudness Correction |
| | Ad Management | Insertion*<br>Replacement*<br>Scheduling* |
| **Video Encoding Mode** | Rate Control | CBR<br>VBR<br>ABR |
| | Frame Control | IDR-Frame Strategy Control |
| | Data Rate | HEVC: 100kps-40Mbps<br>H.264: 10Kbps-20Mbps<br>MPEG-2: 10Kbps-40Mbps |
| | GOP | Fixed<br>Closed<br>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<br>IPv6 |
| | Protocol | HTTP<br>MPEG2-TS (Support TR 101 290)<br>RTSP<br>RTMP<br>RTP over UDP (Unicast & Multicast)<br>RTP over TCP (Unicast & Multicast)<br>Apple HLS<br>Adobe HTTP Dynamic Streaming*<br>Microsoft Smooth Streaming*<br>MPEG-DASH Push |
| **Redundancy** | Components | Server / Channel / Network / Power / N+M* |
| **Alert** | Server | Power Redundant Alert*<br>Network Redundant Alert* |
| | Channel | Channel Redundant Alert* |
| **CDN** | Compatibility | Akamai<br>Wowza<br>Amazon Web Service |

\* All product specifications are subject to change without notice.

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## 4K HEVC Quad Link 3G-SDI

## AVerCaster Web UI
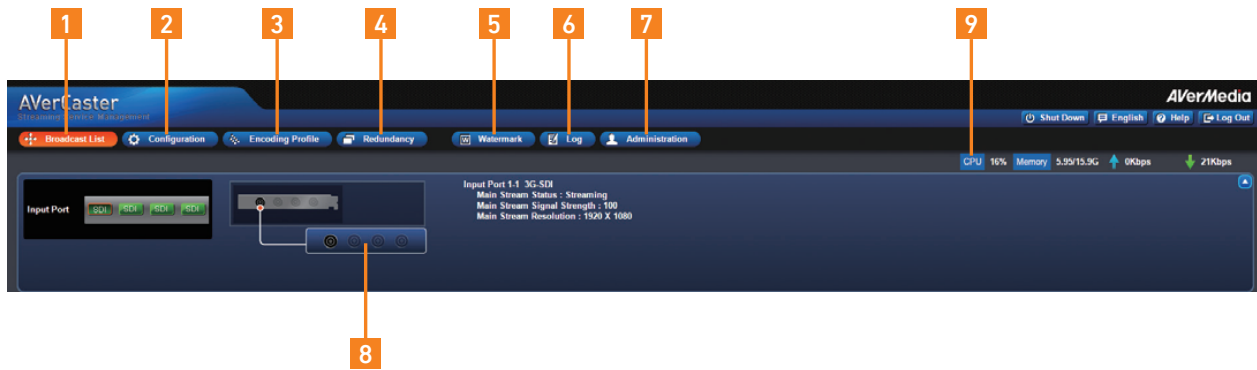


| | | |
|---|---|---|
| **1** | Broadcast List | Manage streaming status |
| **2** | Configuration | Configure video source inputs and streaming outputs |
| **3** | Encoding Profile | Preset encoding profiles for easy streaming control |
| **4** | Redundancy | Manage server redundancy and channel redundancy |
| **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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