

## AVerCaster Premium RS7190

4 Ch 3G-SDI Encoder



### Highlights

- Highly flexible input signals
  - Supports up to 4x3G-SDI / HD-SDI / SD-SDI signal inputs
- High quality encoding capability
  - Supports H.264, AAC, and MP3 video and audio codecs
- Intuitive user interface
  - Visualized WebUI for capture devices to handle signal inputs
- Cost-effective solution for OTT and IPTV services
  - Single source encoded to multi-screen streams
- Reliable platform
  - 1U rack-mounted server and Intel® Xeon® E5-2660 Processor
  - Power and Ethernet redundancies

The AVerCaster Premium RS7190 is a video capturing, encoding, and streaming solution for the OTT and IPTV industries. It not only broadcasts live TV programs and HD video to a massive audience over LAN and WLAN, but also provides bit rate configurations, resolution configurations, and various encoding options to optimize viewing quality for different commercial applications. By supporting FLASH, Apple HLS, MPEG-DASH, and 3GPP, the AVerCaster Premium RS7190 allows you to reach large audiences over computers and most 3G mobile devices, such as tablets and smartphones.

In order to enhance managerial convenience as a head-end device, AVerMedia has developed an intuitive management webpage with remote monitor functions for system integrators. With high video quality, high extendibility, and high durability under long-term video broadcasting, the RS7190 helps OTT and IPTV companies reduce managerial costs and secure TV and video business opportunities.

#### Single input source, multi-screen stream outputs

- 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 MPEG-2 and H.264, the major formats for the OTT and IPTV industries
- Allows resolution and output data rate configurations to meet different requirements
- Supports MPEG-2, H.264/ AAC, H.264/ MP3, H.263/ AMR, AAC, and MP3 video and audio codecs
- Integrates H.264 and Flash formats, allowing end users to watch high quality video on the web

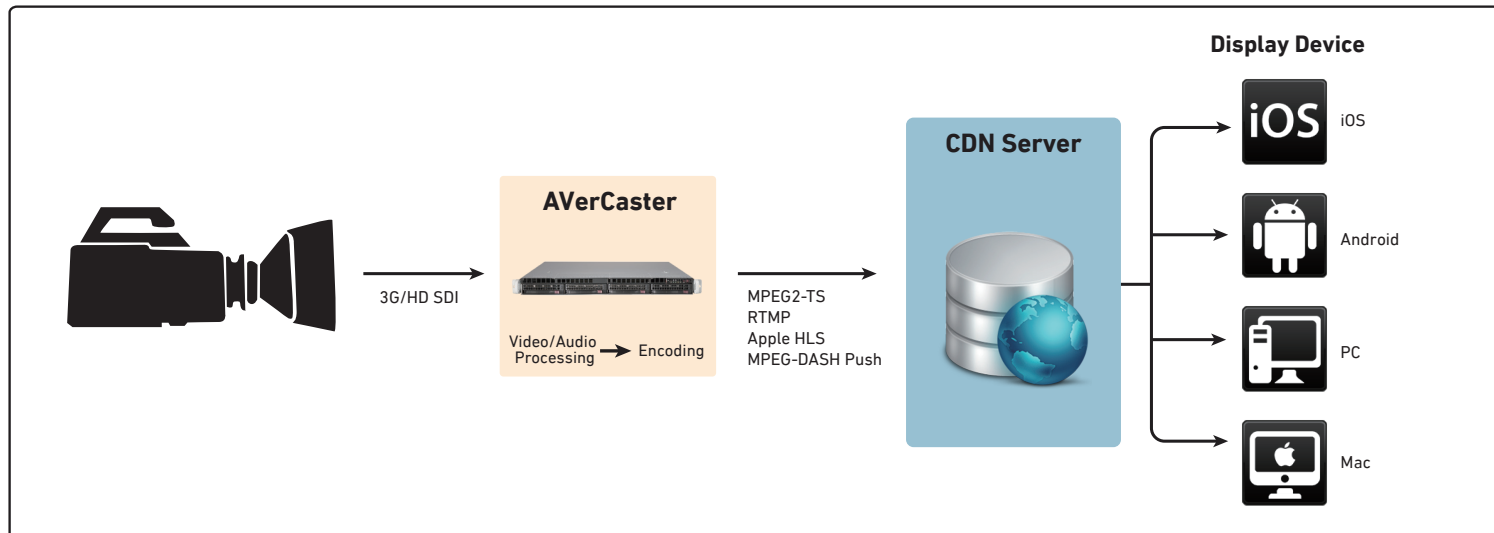
#### Reliable technology

- Server and channel redundancies to avoid contingencies
- Recovery disk and configuration reset can return the server to default settings

#### SW backup solution

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

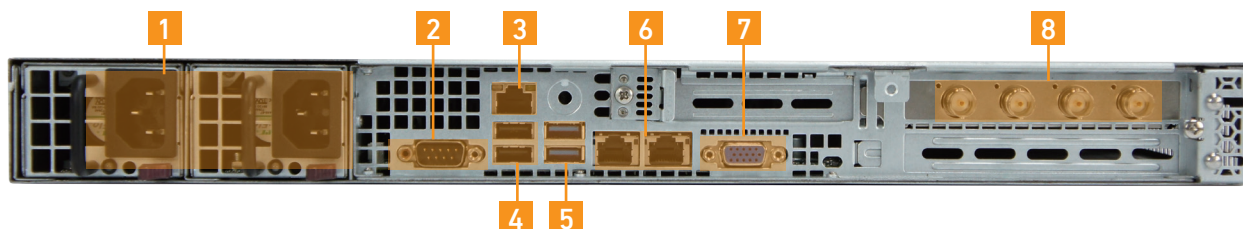
## Workflow



## Platform Specifications

Input Signal	Input Interface	3G-SDI/HD-SDI/SD-SDI
	Max. Input Channels	4 x 3G-SDI/HD-SDI/SD-SDI
System	Operating System	Windows® 8 Embedded
	Processor	Intel® Xeon® E5-2660 V3 (20M Cache, 2.20 GHz, 8.00 GT/s Intel® QPI)
	Memory	16G DDR4 2133
	HDD	500 GB
Physical	Ethernet Controller	Intel® i350 Dual port GbE LAN
	Dimension (W x H x D)	437 x 43 x 650 mm / 17.2" x 1.69" x 25.6"
Power	Weight	10.7 kg / 23.6 lbs.
	Voltage	100V-240V, 63-47 Hz, 4-2 A
Environment	Power Consumption	Redundant Power 500 W
	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



- |                           |                   |              |
|---------------------------|-------------------|--------------|
| <b>1</b> Power            | <b>4</b> USB 2.0  | <b>7</b> VGA |
| <b>2</b> RS232 Controller | <b>5</b> USB 3.0  | <b>8</b> SDI |
| <b>3</b> IPMI             | <b>6</b> LAN Port |              |

## Encoder Specifications

Input Source	Video Input	1080p60, 1080i60, 1080p50, 1080i50, 1080p30, 1080p25, 720p, 576i, 480i, audio sensing
Codecs	Video Codecs	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
	Data Rate	H.264: 10Kbps-20Mbps MPEG-2: 10Kbps-40Mbps
	GOP	Fixed Variable
	Key Framerate	5-300
	Scene Cut Detection	Automatic
	Encode Mode	Progressive MBAFF CABAC CAVLC
Audio Encoding Mode	Rate Control	CBR
Output Stream	Encode Stream	Up to 4x FHD channels
	Resolution	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	Redundancy	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

\* Upgrade without notice

## AVerCaster Web UI



1	Broadcast List	Manage AVerCaster proprietary capture cards and 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	Friendly UI to manage capture interfaces
9	System Status	Monitor CPU, memory and throughput statuses