

# AVerMedia

## 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
  - Power, network and channel redundancy

Video capturing, encoding and streaming for OTT and IPTV require live broadcasting capabilities of TV programs and HD video to a wide viewership over available networking environments. The AVerCaster Premium RS7190 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 Premium RS7190 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 RS7190 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 RS7190 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 MPEG-4 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-4, 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

#### 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

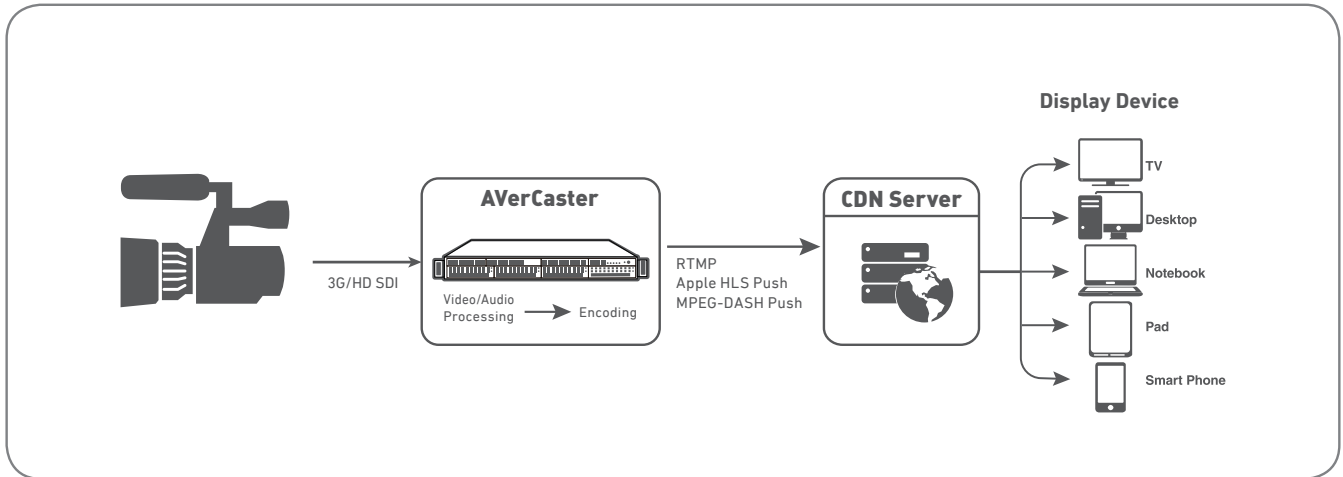
#### SW backup solution

- 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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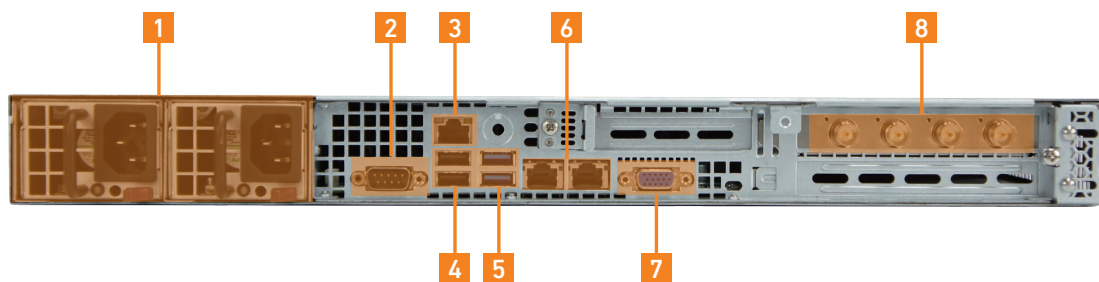
## Workflow



## Platform Specification

Input Signal	Input Interface	3G-SDI/HD-SDI/SD-SDI
	Max. Input Channels	4 x 3G-SDI/HD-SDI/SD-SDI
Physical	Dimension (H x W x D)	437 x 43 x 650 mm / 17.2" x 1.69" x 25.6"
	Weight	10.7 kg / 23.6 lbs.
Power	Voltage	100V-240V, 63-47 Hz, 4-2 A
	Power Consumption	Redundant Power 500 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



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

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## Platform Specification

Input Source	Video Input	1080p60, 1080i60, 1080p50, 1080i50, 1080p30, 1080p25, 720p60 and below, 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 Frame	5-300
	Scene Cut Detection	Automatic
	Encode Mode	Progressive MBAFF CABAC CAVLC
Audio Encoding Mode	Rate Control	CBR
Output Stream	Encode Stream	Up to Full HD 1080p60
	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	Components	Server Channel Network Power N+M*
Alerts	Server	Power Redundant Alert* Network Redundant Alert*
	Channel	Channel Redundant Alert*
CDN	Compatibility	Akamai Wowza Amazon Web Service

\* Upgrade without notice.

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## AVerCaster Web UI



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