AVerMedia®

Broadcast Real-time TV/Video to Your Network

Cost-effective and reliable IPTV and OTT streaming solution

AVerCaster Pro RS7100 Series

Quick View

AVerCaster Pro RS7100 series is a next-generation video capturing, encoding, transcoding and streaming solution for IPTV and OTT industries. It not only broadcasts live TV programs and HD video to massive audience over LAN and WLAN, but also provides the bit rate configuration, resolution configuration, and various encoding options to optimize the viewing quality for different commercial applications. By supporting FLASH, Apple HLS and 3GPP, AVerCaster Pro RS7100 series can reach rich audience on computers and most 3G mobile devices, such as tablets and smartphones.

To enhance managerial convenience as a head-end device, AVerMedia has developed intuitive management webpage with remote monitor functions for system integrators. With high video quality, high extendibility, and high endurability under long-term video broadcasting, AVerCaster Pro RS7100 series helps IPTV and OTT companies to reduce the managerial cost and get one step ahead for the blooming TV and video business opportunities.

Applications

- Web TV and IPTV Operation
- Broadcasting Industry
- TV Entertainment in Hotel and Apartment
- Patient Entertainment and Education in Hospital and Healthcare Center
- Speech and Ceremony Broadcast in School/ Corporate/Religious Center
- Digital Signage in Commercial Building/ Government Institute/Airport/Chain Store
- TV Program Monitoring for Finance/Journalism/ Marketing Applications

Key Features and Benefits

High flexibility for input signals

Supports signal inputs fed by HD/SD-SDI, ASI, HDMI, Component, Composite and S-Video for various commercial applications

Multiple streams output from single input source

- Supports single source to be streamed to multiple output files for various client devices
- Compatible with standard video streaming protocols, so that the video can be streamed to standard IP-STB and TV directly
- Supports FLASH on PC and Notebook (Windows/Mac/ Linux)
- Supports Apple HLS and 3GPP, allowing end users to see TV/video on widely-used 3G mobile devices, such as iOS/Android tablets and smartphones
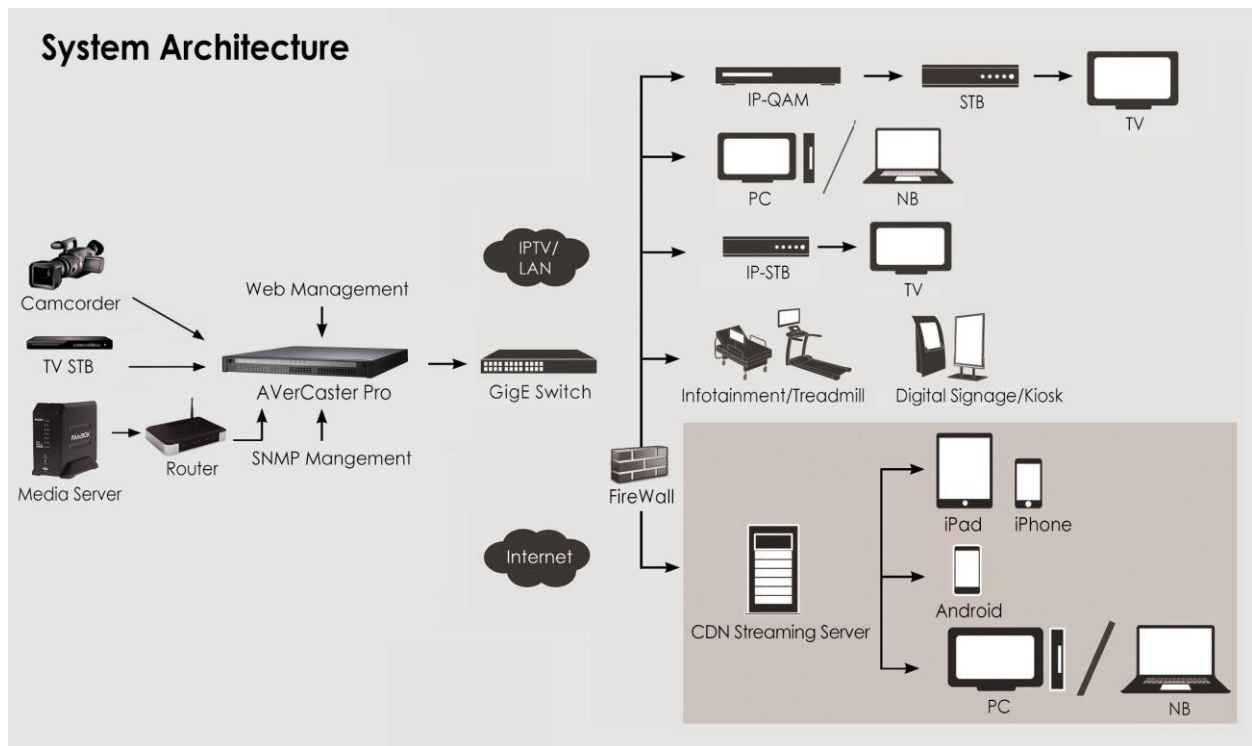
High-quality encoding and transcoding capability

- Capable of encoding video in MPEG2 and H.264, the major formats for broadcasting and IPTV industries
- Allows resolution and output data rate configurations to meet different requirements
- Supports encoding and transcoding to MPEG2, H.264/ AAC, H.264/ MP3, H.263/ AMR, AAC and MP3
- Integrates H.264 and Flash formats, allowing end users to watch high quality video on their web browsers without the need of additional media player

Reliable technology

- Built-in web server browser to provide customers web-based remote central control
- Supports SNMP v1, v2 and SAP
- AVerMedia's capture expertise and quality technical support will ensure the reliability of device under long-time video streaming

Technical Specifications

System Architecture

RS7100 Series Specifications

System

- Operating System: Windows® 7 Embedded
- Processor: Intel® Core™ i7 2600 3.4GHz
- Memory: 8G DDR3 1333
- HDD: 250 GB
- Ethernet Controller: Intel® 82579LM & Intel® 82538V

Physical

- 19" Rack Mount, 1RU
- Dimension: 44 mm(H) x 430 mm(W) x 497 mm (D)
- Weight: 10 Kg

Power

- Voltage: 100V-240V, 63~47 Hz, 4~2 A
- Power Consumption: 300 W

Environment

- Operating Temperature: 0°C to 50°C (32°F to 122°F)
- Storage Temperature: -20°C to 60°C (-4°F to 140°F)
- Humidity Tolerance: 10% to 85% @ 40°C (Non-condensing)

Administration & Monitoring

- Build-In Web Server Browser Management
- Support SNMP v1 and SNMP v2

RS7140

Input Signal

- Input Interface: Composite, TS-IP & Audio (L/R)
- Max. Input Channels: 12*CVBS and 8*TS-IP

IP Output

- Multi-stream output supported
- Interface: 10/100/1000 Base-T port x 2
- Protocol: TS over TCP/UDP (Unicast & Multicast)/RTP (Unicast & Multicast)/HTTP, HLS, FLV over HTTP, RTMP Publish, RTSP
- IP Version: IPv4

Video Formats

- Managed Codec: H.264/MPEG2/H.263
- Encode Mode: ABR/CBR/VBR
- Resolution: 1920x1080,1760x990, 1600x900, 1440x1080, 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
- Data Rate: 10 Kbps-20 Mbps
- Entropy Mode: CAVLC/CABAC
- Frame Rate: H.264 10-30fps/ MPEG-2: 25~60fbp

Audio Formats

- Managed Codec: AAC, MPEG Audio, AMR, MP3
- Sample Rate: 8-48 KHz
- Data Rate: 16-320 Kbps

Technical Specifications

RS7160

Input Signal

- Input Interface: HDMI, Component, S-Video, Composite, TS-IP & Audio (L/R)
- Max. Input Channels: 4*HDMI/Component/ S-Video/Composite and 8*TS-IP

IP Output

- Multi-stream output supported
- Interface: 10/100/1000 Base-T port x 2
- Protocol: TS over TCP/UDP (Unicast & Multicast)/RTP (Unicast & Multicast)/HTTP, HLS, FLV over HTTP, RTMP Publish, RTSP
- IP Version: IPv4

Video Formats

- Managed Codec: H.264/MPEG2/H.263
- Encode Mode: ABR/CBR/VBR
- Resolution: 1920x1080,1760x990, 1600x900, 1440x1080, 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
- Data Rate: 10 Kbps-20 Mbps
- Entropy Mode: CAVLC/CABAC
- Frame Rate: H.264 10-30 fps/ MPEG2: 25~60 fbp

Audio Formats

- Managed Codec: AAC, MPEG Audio, AMR, MP3
- Sample Rate: 8-48 KHz
- Data Rate: 16-320 Kbps

RS7170

Input Signal

- Input Interface: VGA, HDMI, Component, Composite, S-Video, TS-IP & Audio (L/R)
- Max. Input Channels: 4*HDMI/Component (or 2*HDMI/Component with 2*CVBS/S-Video) plus 1* VGA/HDMI and 8*TS-IP

IP Output

- Multi-stream output supported
- Interface: 10/100/1000 Base-T port*2
- Protocol: TS over TCP/UDP/UDP Multicast/RTP/RTP Multicast/HTTP/HTTP Live Streaming (HLS)/FLV over HTTP/RTMP Publish/RTSP
- IP Version: IPv4

Video Formats

- Managed Codec: H.264/MPEG2/H.263
- Encode Mode: ABR/CBR/VBR
- Resolution: 1920x1080,1760x990, 1600x900, 1440x1080, 1368x768, 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
- Data Rate: 10 Kbps-20 Mbps
- Entropy Mode: CAVLC/CABAC
- Frame Rate: H.264 10-30 fps/ MPEG-2: 25~60 fbp

Audio Formats

- Managed Codec: AAC, MPEG Audio, AMR, MP3
- Sample Rate: 8-48 KHz
- Data Rate: 16-320 Kbps

Technical Specifications

RS7180

Input Signal

- Input Interface: HD-SDI/SD-SDI/ASI, TS-IP & Audio (L/R)
- Max. Input Channels: 4*HD-SDI/SD-SDI/ASI and 8*TS-IP

IP Output

- Multi-stream output supported
- Interface: 10/100/1000 Base-T port x 2
- Protocol: TS over TCP/UDP (Unicast & Multicast)/RTP (Unicast & Multicast)/HTTP, HLS, FLV over HTTP, RTMP Publish, RTSP
- IP Version: IPv4

Video Formats

- Managed Codec: H.264/MPEG2/H.263
- Encode Mode: ABR/CBR/VBR
- Resolution: 1920x1080,1760x990, 1600x900, 1440x1080, 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
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