



# ERICSSON SVP 5500 HEVC ENCODER



Consumer desire to access high quality content anytime, anywhere, is driving demand for integrated TV services on any network. The proliferation of video capable portable devices such as laptops, tablets and smart phones means that a growing share of this consumption will interest mobile networks. It is expected that by IP traffic on mobile will grow exponentially, mainly driven by video. This level of IP traffic creates bandwidth challenges for mobile operators.

With a world leading pedigree in encoding solutions, Ericsson launched the SVP 5500, the world's first HEVC (H.265) encoder for mobile that meets the needs of offering high quality video at very low bandwidths. Introduction of HEVC standard allows operators to save up to 50% bandwidth over MPEG-4 AVC standard and makes it a viable proposition for mobile applications. Mobile operators can take advantage of this high performance video processing to deliver highly bandwidth efficient television services to consumers over mobile broadband networks. Combined with multicast mode of Ericsson's eMBMS LTE networks the SVP 5500 enables the most efficient delivery of popular content to consumers, while on the move, hugely reducing network traffic and bandwidth utilization issues for operators.

Housed in a compact 1RU chassis, the SVP 5500 can take standard MPEG-2 or MPEG-4 AVC transport streams over IP or video via SDI to encode it into the HEVC format ready for streaming to the mobile devices. SVP 5500 can output streams using MPEG-DASH segmentation. Option is available whereby the HEVC stream can also be stored as file for later transmission.

## PRODUCT OVERVIEW

### Meeting Mobile bandwidth challenges

Mobile subscriptions for high data consumption devices are expected to reach 4.2 billion by 2018 and demand for data traffic expected to grow 15 fold by the end of 2017, driven mainly by video. Ericsson's HEVC technology is ideally placed to deliver bandwidth savings for same video quality to enables operators to efficiently launch media services over LTE to meet this demand.

### Integrated with Ericsson's eMBMs LTE

Ericsson's LTE broadcast is a very powerful tool for operators to embrace the impact and attraction of media contents and thus to provide new services and business opportunities in the mobile media era. Allows the network operators and its media partners to offer new services boldly over the mobile networks, using innovative business models, without the fear of congestion or failure to deliver to the consumers.

Ericsson's leading eMBMS LTE is the system that deliver a complete end-to-end solution for mobile operators.

### MPEG-DASH segmentation support

Dynamic Adaptive Streaming over HTTP (DASH) simplifies and standardizes the adaptive delivery of video to consumer devices, ensuring a better quality of service, greater efficiency and introducing opportunities for monetization.

### Flexible input configuration Baseband encoding and transcoding

SVP 5500 is capable of accepting SDI video or either MPEG-2 or MPEG-4 AVC transport stream over an IP input and transcode it directly into HEVC format.

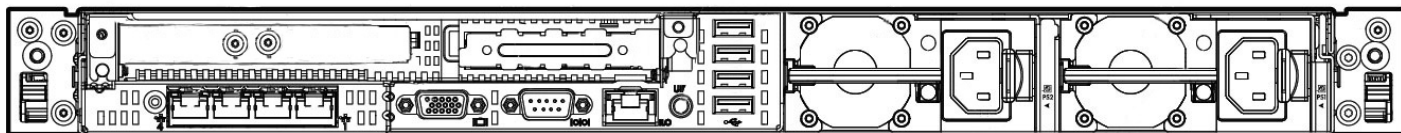
## BASE UNIT FEATURES

### SVP 5500 HEVC Encoder (SVP5500/BAS/IP and SVP5500/BAS/SDI)

The SVP 5500 product is available in to two variants; SDI input (SVP 5500/BAS/SDI) and IP input (SVP5500/BAS/IP). Core features of the SVP5500 include:

- Live HEVC encoding (main profile) at 800x600p29.97
- Up to 1280 x 720p resolutions
- Encodes video up to 8Mbps
- Closed captioning
- DVB Teletext to TTML/DASH
- Multiple audio encoding formats
- Coding tree units up to 64 x 64
- Aspect ratio conversion or pass-through
- Color enhancement
- Logo / Slate insertion
- SNMP interface for remote control and monitoring
- Dual power supplies

## SVP5500 SAMPLE CONFIGURATION



### SPECIFICATIONS

#### Video Input

HD SDI serial digital video  
MPEG-2 or MPEG-4 AVC, SD or HD via Ethernet.

#### Audio Input

1 x stereo audio encoding

#### Video Encoding

Down conversion to HEVC main profile  
Up to 1280x 720p resolutions  
Supports encoding up to 8Mbps output  
Closed captioning support

#### Audio Encoding

Supports HE-AAC v1/v2  
5.1 stereo down-mix

#### Output

Integrated MPEG-DASH segmentation  
Integrated Origin Server  
Transport Stream to mezzanine format  
I/O network redundancy  
H.265/HEVC over DASH  
H.265/HEVC over MPEG2-TS

#### Management

Integrated with Ericsson's nCC Control and Management system  
SNMP interface

#### Physical and Power

##### Dimensions (W x D x H)

435 x 670 x 43mm (17.1" x 27.5" x 1.7")

##### Weight (fully configured)

20 Kg (44 lbs)

##### Input Voltage

110 to 240 VAC 50/60Hz.

##### Power Consumption

750 W Max per power supply

##### Operational Temperature

10°C to +35°C (50°F to 95°F) ambient with free air flow

##### Relative Humidity

10% to 90% (non-condensing)

##### Compliance

CE marked in accordance with EU Low Voltage and EMC directives