

## ADV-4200EC

### Professional H.265/H.264 4K Encoder



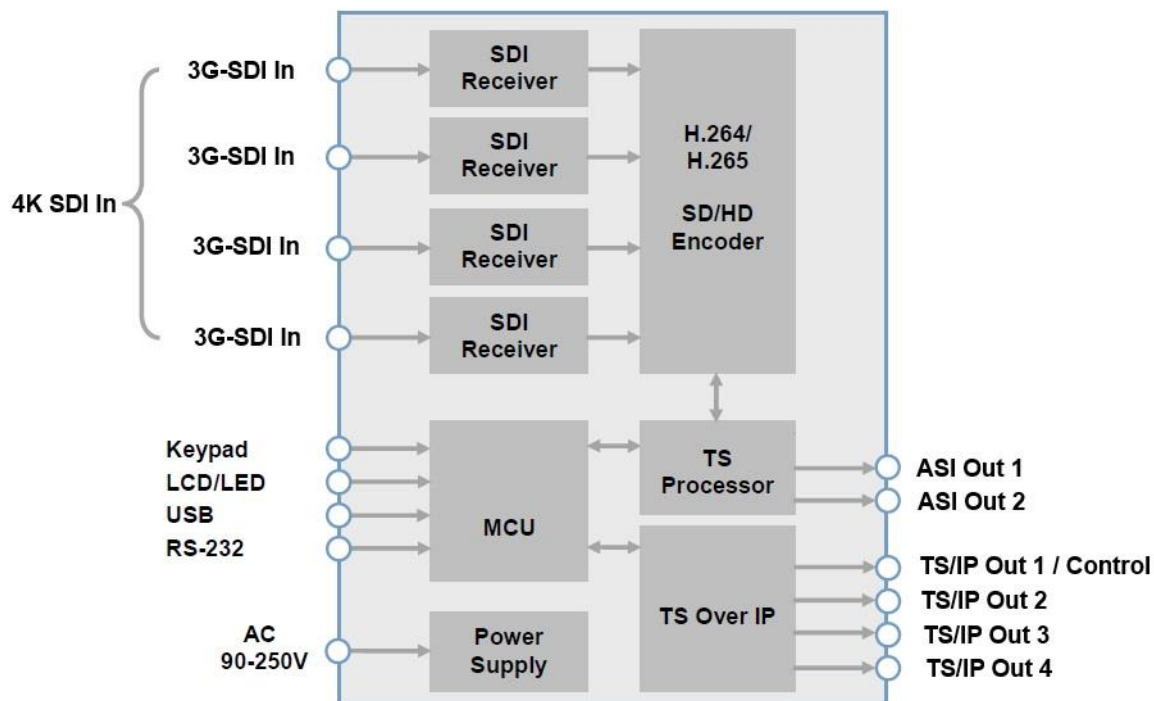
The ADV-4200EC is a high quality UHD H.264 (AVC) / H.265 (HEVC) encoder.

It can receive and encode four SD/HD/FHD or one 4K TV into a Transport Stream (TS) with H.264/H.265 compression. The internal built-in Time Base Correction functional block ensures the stability of encoding process from audio and video intermittence.

The internal re-multiplexing function allows creation of a new TS formed with the TS internally encoded and the TS from IP input. The final TS can be multiple SPTS or MPTS over IP, as well as over ASI.

ADV-4200EC is the best solutions to meet the H.265 migration in today's digital broadcasting market.

#### ADV-4200EC Functional Block Diagram



#### Back Panel Interface



## Main Features

- Supports 1 channel 4K or 4 channels HD encoding
- Ultra-low latency up to 10ms
- Multiple video resolution including 2160p, 2160i, 1080p, 1080i, 720p, 720i, 480p, 480i
- Multiple inputs 3G/HD/SD-SDI
- Internal Time Base Correction (TBC)
- MPEG-1 Layer II & AAC LC audio encoding, AC3 pass through
- Up to 4 stereo audio encoding
- Supports 10/1000M TS/IP SPTS and MPTS
- Supports UDP, RTP/UDP, Multicast, Unicast, HLS, RTMP IGMPv2, ARP, SRT streaming
- Built-in re-multiplexer
- Supports VBR and CBR encoding modes
- Remote Control and Supervision by SNMP, HTTP WEB

## Specification

<b>Video Compression</b>	
Video Format	2160p (3840x2160) 1080p (1920x1080) 1080i (1920/1440x1080) 720p (1280x720) 480i (720x480) 576i (720x576)
Video Format Rate	60,59.94,50,30,29.97,25,24,23.97
Compression Standard	H.265 (HEVC); H.264 (AVC), High Profile Level 4.0
Aspect Ratio	4:3 / 16:9 selectable
Chrominance Sampling	4:2:0 8bits 4:2:0 10bits 4:2:2 8bits 4:2:2 10bits
Video Encoding Bit Rate	200Kb/s-80Mb/s
Recommend Video Encoding Bit Rate	3840x2160 60p/59.94p/50p 6-16Mb/s 1920x1080p / 59.94/50 fps: 2~8Mb/s 1920x1080i /25/29.97fps: 1~6Mb/s 1440x1080i /25/29.97fps: 1~6Mb/s 1280x720p /50/59.94fps:1~6Mb/s 720x480i /29.97fps: 500k/s~4Mb/s
<b>Audio Compression</b>	
Compression standard	MPEG-1 Layer II, AAC LC, AC3 pass through
Audio Input	Embedded Audio (from SDI )
Audio Channels	Stereo, Mono
Audio Sampling Rate	48KHz
Audio compression Bit Rate	64 ~ 384Kb/s
<b>Audio/Video Input Interface</b>	
HD-SDI	4xBNC Female, 75Ω
<b>TS Processing</b>	
TS Output Management	Remux and demux
Service and PID management	Filtering and remapping
TS Input Management	Remux and demux between IP input and the SPTS encoded
PSI/SI	PSI/SI table regeneration, NIT and SDT edition
<b>TS over IP</b>	
Connector Type	4xRJ-45, 10/100/1000 Base-T
Useful bit rate	800Mb/s
Protocol	UDP, RTP/UDP, Multicast, Unicast, HLS,RTMP IGMPv2, ARP, SRT
Source	Built-in Re-mux, Encoder

<b>ASI Output</b>	
Connector Type	2×BNC Female, 75Ω
Output bit rate	≤ 99Mb/s
Packet Length	188 Bytes
Signal Level	800mVpp±10%
<b>Control &amp; Monitoring</b>	
Connector Type	1×RJ-45, 10/1000 Base-T
Remote Control	SNMP, HTTP Web
Local Control	LCD display and 6-key keypad
Software Upgrade	web
<b>Physical</b>	
Dimension	44mm×483mm×318mm
Net weight	5Kg
Power supply	AC90~250V, 50Hz/60Hz
Power Consumption	Maximum 20W
Operating Temperature	0 ~ 45°C
Storage Temperature	-10 ~ 60°C
Humidity	10 ~ 90%, non-condensed