



DV-4800EC is a high density real-time H.264 HD/SD Encoder that can support encoding up to eight HD/SD A/V signals.

ADV-4800EC consists of two 4-Channel (total 8) H.264/MPEG-2 encoder modules.

All encoders are real time and independent.

ADV-4800EC can have up to 8x HDMI or 8x SDI or 8 CVBS input ports as different factory options. The encoded streams can be re-multiplexed and output over its GbE IP and ASI ports.

ADV-4800EC also has ASI input and ASI output.

ADV-4800EC has two TS/IP operation modes. The first is “Full Duplex”, which allows one MPTS or SPTS input stream over multicast/unicast to make a new MPTS with internal encoders, to output it over multicast/unicast.

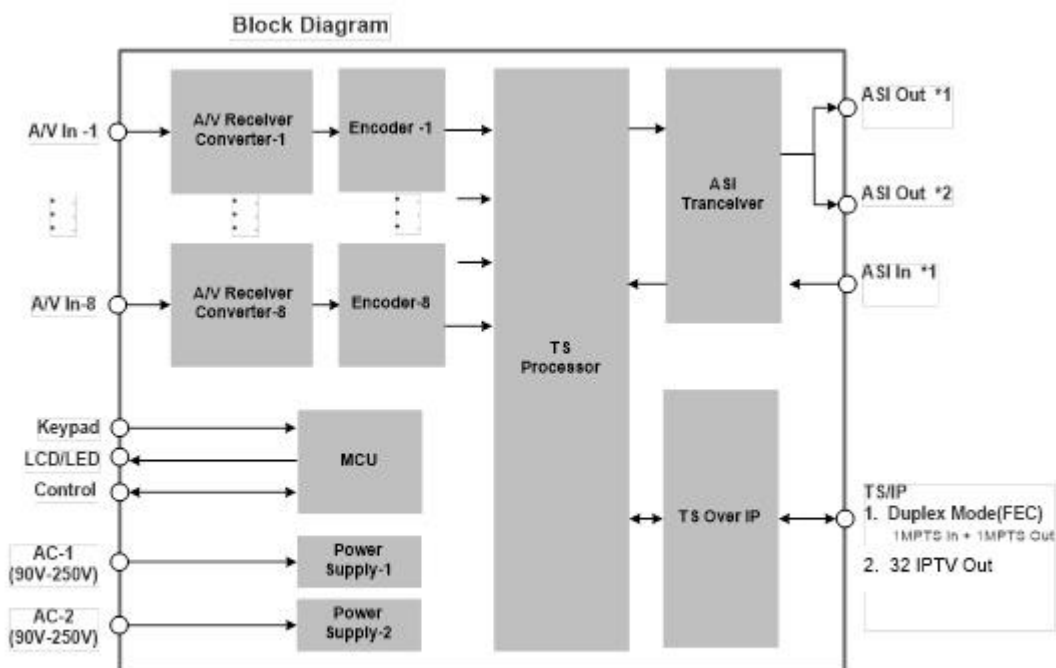
In the second mode “32 IPTV Output” the unit delivers up to 32 streams over IP.

ADV-4800EC allows users to configure, monitor and manage over the front panel, Web interface and SNMP.

This Encoder presents perfect picture quality, high density design, high stability, and the hot-swappable power supply.

Features

- Compliant with H.264/AVC HP@L4.0 & MPEG-2 MP@ML
- Internal re-multiplexer accepts TS from the TS/IP and ASI ports
- Outputs up to 32 IPTV streams @ total bit rate of 200Mb/s
- HD/SD Video Resolutions: 1080i, 720p, 576i, 480i
- MPEG1-L2, MPEG-2/4 AAC-LC/HE-AAC Audio Encoding
- ASI input (for daisy chain) & Redundant ASI output
- Remote control/monitoring with SNMP and HTTP/Web interface
- Two Redundant Power Supplies



Technical Specifications

Video	
Input Interface	HDMI x 8, HD-SDI x 8, CVBS x 8 (see ordering information)
Encoding Standard	H.264/AVC HP@L4.0&MPEG-2 MP@ML H.264/AVC MP@L4.0&MPEG-2 MP@ML
Chrominance Sampling Format	4:2:0
Output Resolution Settings & recommend bit-rate range	1080i (1920x1080) @25Hz,29.97Hz,30Hz,50Hz,59.94Hz,60Hz: SMPTE274M: 1~13Mb/s 720p (1280x720) @25Hz,29.97Hz,30Hz, 50Hz,59.94Hz,60Hz: SMPTE296M: 1~13Mb/s 480i (720x480) @25Hz: SMPTE656M: 600kbps~8Mb/s 576i (720x576) @29.97Hz: SMPTE656M:600kbps~8Mb/s
Other Output Resolutions	Manually entered, Arbitrarily
Aspect Ratio	4:3 or 16:9, configurable
Audio	
Input Interface	HDMI or SDI Embedded audio, or RCA x 8,
Encoding Standard	MPEG1 Layer II MPEG-2/4 AAC-LC, HE-AAC(V1,V2)
Sampling Frequency	48KHz
Encoding Bit Rate Range	MPEG1 Layer II :32~192Kbps(Mono), 64~384Kbps(Stereo), MPEG2/4 AAC-LC :24~256Kbps(Mono), 48~512Kbps(Stereo) MPEG2/4 HE-AAC(V1/V2): 16~128Kbps(Mono), 32~256Kbps(Stereo)
DVB-ASI Input	
Interface	BNC Female, 75Ω
Maximum Input Data Bit rate	100 Mb/s
Data Transfer type	Byte
Packet Length	188 or 204 Bytes
Signal Level	200 ~ 880mVp-p
DVB-ASI Output	
Interface	BNC Female, 75Ω
Max. Data Rate	200 Mb/s (including null data)
Data Transfer type	Byte, non-burst
Packet Length	188 or 204 Bytes
Signal Level	800±80mV
TS/IP, Mode 1: Full Duplex, Single TS in, Single TS out	
Standard	IEEE 802.3, 10/100/1000 Base-T
Maximum Bit Rate	80Mb/s in + 80Mb/s out
Data Encapsulation	UDP, RTP, SPTS or MPTS
Protocol	ICMP, ARP, IGMPv2
TS/IP, Mode 2: 32 IPTV Output Only	
Standard	IEEE 802.3, 10/100/1000 Base-T
Maximum Output Bit Rate	200Mb/s
Data Encapsulation	UDP, RTP, SPTS or MPTS
Protocol	ICMP, ARP, IGMPv2
Rear Panel	
ADV-4800EC-H	HDMI x 8, ASI In, ASI Out x2
ADV-4800EC-S	SDI x 8, ASI In, ASI Out x2

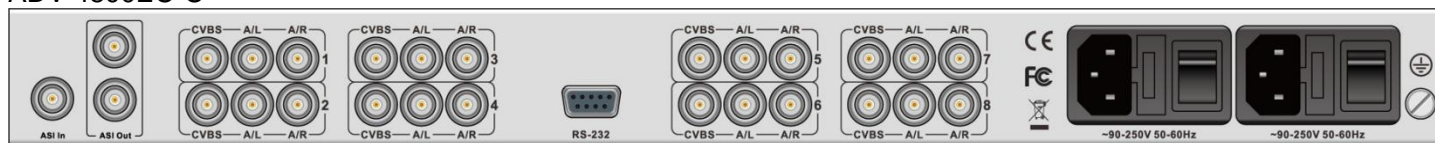
ADV-4800EC-C	RCA, 75Ω x24
Front Panel	
Control	RJ-45, 10/100 Base-T x 1, USB x 1
TS/IP	RJ-45X2, 10/100/1000 Base-T x 2; (1 Back up Output)
Display	2x16 LCD module
Others	
Input AC Voltage Range	AC100~260V 50/60Hz
Operating Temperature	0 ~ 40°C
Storage Temperature	-10 ~ 60°C
Operating Humidity	10 ~ 90%, (Non-condensed)

Back Panel

ADV-4800EC-H



ADV-4800EC-C



ADV-4800EC-S



ORDERING INFO

- ADV-4800EC-S - 8-Channel H.264/MPEG-2 HD/SD encoder with 8 HD/SD-SDI inputs
- ADV-4800EC-S-4 - 4-Channel H.264/MPEG-2 HD/SD encoder with 4 HD/SD-SDI inputs
- ADV-4800EC-H - 8-Channel H.264/MPEG-2 HD/SD encoder with 8 HDMI inputs
- ADV-4800EC-H-4 - 4-Channel H.264/MPEG-2 HD/SD encoder with 4 HDMI inputs
- ADV-4800EC-C - 8-Channel H.264/MPEG-2 SD encoder with 8 CVBS inputs
- ADV-4800EC-C-4 - 4-Channel H.264/MPEG-2 SD encoder with 4 CVBS inputs