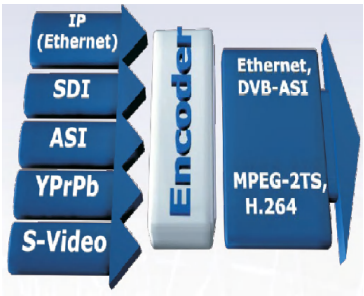
IP-NET VISION™
MPEG-2 to H.264 TRANSCODER

Model

AVC/H.264X



Software based MPEG-4 part 10 (AVC/H.264) real-time video encoding and transcoding solution with market leading video quality, unachievable for any hardware based encoders.

- Simultaneous AVC D1 and AVC CIF Output Streams for each Channel
- Five Channels per 2RU Chassis

Applications:

- IPTV solutions
- DTV head-end
- DTH Uplinks
- DVB-T/C/S head-end
- DVB-H and mobile video
- Video distribution from mobile to high definition

Features:

- High quality real-time HD & SD MPEG-4 part 10 (AVC/H.264) encoder provides DVD quality video at bit rates from 1.5 Mbps for SD and from 5 Mbps for HD
- High quality AAC encoder provides CD quality audio at bit rates from 64kbps
- Baseline, Main, and High profiles, up to Level 5.1 support
- Digital, analog, and Ethernet IP inputs
- DVB-ASI and Ethernet IP outputs
- Interoperability with existent software and hardware players (STB decoders)
- Progressive and interlaced encoding through both PAFF and MBAFF
- Advanced CBR and VBR rate control fully compliant with HRD model perfectly suites the needs of real-time data encoding and delivering through channels with constant and variable bandwidth
- Look-ahead video analysis with advanced scene change and transition detection
- Three modes of adaptive quantization to ensure highest visual quality
- Video preprocessing – cropping, resizing, de-interlacing, watermarking
- Support for RAW/UDP, RTP/UDP and exclusive support for RAW/TCP, RTP/TCP
- Advanced user interface allows full control over encoding system, including resolution, interlaced and progressive coding, bit-rate, frame rate, GOP structure, all advanced video coding features like motion estimation, adaptive quantization, rate-distortion optimization, resulting in absolutely flexible solution.

HFCNET & IP-NET • 10256 N.W. 47th Street, Sunrise, Florida 33351, USA • Phone: (954) 578-5929 • Fax: (954)-212-9205
http://www.hfcnet.net • info@hfcnet.net • sales@hfcnet.net

Specifications:

Input	Ethernet, SDI, HD-SDI, DVB-ASI, analog video via Composite, Component (Yr, Pr, Pb), S-Video
Transport	MPEG-2 TS (for Ethernet and DVB-ASI input)
Video	Uncompressed video, MPEG-2, AVC/H.264
Audio	Uncompressed audio (PCM), analog audio AES/EBU, MPEG-1 layer I/II, MPEG-4 AAC, HE-AAC
Ouput	Ethernet, DVB-ASI
Transport	MPEG-2 TS, Elementary Streams
Video	MPEG-4 Part 10 (AVC/H.264) D1 and MPEG-4 Part 10 (AVC/H.264) CIF
Audio	MPEG-1 Layer II, AAC, HE-AAC
Network Features	Protocols: RAW/UDP, RTP/UDP (unicast or multicast), RAW/TCP, RTP/TCP, IPv4, IPv6* Announcement: SDP/SAP
Resolution	From QCIF up to Full HD 720p and 1080i
Bit Rates	From 10 kbps up to 288 Mbps
Preprocessing	Picture resizing, cropping, de-interlacing, watermarking
Encoding Features	Advanced motion estimation and scene change/transition detection, Adaptive GOP, multiple reference frames, weighted prediction, Configurable rate-distortion optimization parameters, Frame, Field and MBAFF coding modes, Advanced CBR and VBR rate control, 3 modes of adaptive quantization
Control	Remote web-based management interface • Network configuration • Capture boards configuration • Preprocessing and encoding control • Multiplexing and transport configuration • System information
Monitoring	SNMP v2.0 via Web-interface
Operating System	Windows XP embedded, Windows XP Professional, Windows 2003 Server

Ordering Information:

Contact IP-NET or an approved representative to order any combination of input formats, input and output interfaces.