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 PAAFF 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.
## Specifications:

<table>
<thead>
<tr>
<th>Input</th>
<th>Ethernet, SDI, HD-SDI, DVB-ASI, analog video via Composite, Component (Yr, Pr, Pb), S-Video</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Video Audio</td>
<td>MPEG-2 TS (for Ethernet and DVB-ASI input) Uncompressed video, MPEG-2, AVC/H.264 Uncompressed audio (PCM), analog audio AES/EBU, MPEG-1 layer I/II, MPEG-4 AAC, HE-AAC</td>
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<tr>
<td>Output</td>
<td>Ethernet, DVB-ASI</td>
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<tr>
<td>Resolution</td>
<td>From QCIF up to Full HD 720p and 1080i</td>
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<tr>
<td>Bit Rates</td>
<td>From 10 kbps up to 288 Mbps</td>
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<tr>
<td>Preprocessing</td>
<td>Picture resizing, cropping, de-interlacing, watermarking</td>
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<tr>
<td>Encoding Features</td>
<td>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</td>
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<tr>
<td>Control</td>
<td>Remote web-based management interface Network configuration Capture boards configuration Preprocessing and encoding control Multiplexing and transport configuration System Information</td>
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<tr>
<td>Monitoring</td>
<td>SNMP v2.0 via Web-interface</td>
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### Ordering Information:
Contact IP-NET or an approved representative to order any combination of input formats, input and output interfaces.