IPTV Encoder with 8/12/16/20/24 Inputs

- 8 HDMI input, 8 SPTS IPTV and 1 MPTS output (EMU 8508)
- 12 HDMI input, 12 SPTS IPTV and 1 MPTS output (EMU 8512)
- 16 HDMI input, 16 SPTS IPTV and 1 MPTS output (EMU 8516)
- 20 HDMI input, 20 SPTS IPTV and 1 MPTS output (EMU 8520)
- 24 HDMI input, 24 SPTS IPTV and 1 MPTS output (EMU 8524)
- 1 ASI output (optional)
- On-Screen Graphics, Scrolling Text, QR Code insertion
- Accurate PCR adjusting
- PID filtering and re-mapping
- PSI/SI rebuilding and editing
- “Null PKT Filter” function
- Remote control by a modern Web based management
- Updates via Web-interface

Depending on installed number of Inputs:
8 & 12 Input Model supporting SPTS + 1MPTS output streams in parallel. 16, 20 and 24 Inputs you have to chose: Either SPTS or MPTS mode.

BLANKOM EMU 8500 series:
MPEG4 AVC/H.264 HD IP Encoder is a professional HD audio & video encoding and multiplexing device. Input: 8 ... 24 HDMI compatible Video input interfaces, supporting MPEG-4 Video encoding and MPEG 1 Layer 2 audio encoding. This very compact Encoder simultaneously encodes up to 8 ... 24 HDMI compatible HD Audio & Video channels to IP output as a multiplexed 1 MPTS and 8 ... 24 SPTS IP SPTS output streams as UDP/RTP Multicast. Every encoded Video-picture can be added with Text, Graphic or QR-code overlays.

High integrated and cost effective design fits perfect into widely use cases in varieties of digital distribution systems such as cable TV digital head-end, satellite digital TV broadcasting etc.
## Technical specifications:

<table>
<thead>
<tr>
<th>Input</th>
<th>8 / 12 / 16 / 10 / 24 HDMI inputs</th>
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<table>
<thead>
<tr>
<th>Video</th>
<th>Resolution</th>
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<tbody>
<tr>
<td></td>
<td>input</td>
</tr>
<tr>
<td></td>
<td>1920×1080_60P, 1920×1080_60i,</td>
</tr>
<tr>
<td></td>
<td>1920×1080_50P, 1920×1080_50i,</td>
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<tr>
<td></td>
<td>1280×720_60P, 1280×720_50P,</td>
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<tr>
<td></td>
<td>720×576_50i, 720×480_60i,</td>
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<tr>
<td></td>
<td>output</td>
</tr>
<tr>
<td></td>
<td>1920×1080_30P, 1920×1080_25P,</td>
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<tr>
<td></td>
<td>1280×720_30P, 1280×720_25P,</td>
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<tr>
<td></td>
<td>720×576_25P, 720×480_30P,</td>
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</table>

| Encoding               | MPEG-4 AVC/H.264                    |
| Bitrate                | 1Mbps...13Mbps each channel         |
| Encoding Rate Control  | CBR/VBR                             |
| GOP Structure          | IP...P (P Frame adjustment, without B Frame) |

<table>
<thead>
<tr>
<th>Audio</th>
<th>Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MPEG-1 Layer 2</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>48KHz</td>
</tr>
<tr>
<td>Resolution</td>
<td>24-bit</td>
</tr>
<tr>
<td>Bit-Rates</td>
<td>64kbps, 128kbps, 192kbps, 224kbps, 256kbps, 320kbps, 384kbps</td>
</tr>
</tbody>
</table>

| Multiplexing           | Maximum PID                        |
|                        | 180 input per channel               |
| Remapping              | PID remapping (automatically or manually) |
| Function               | PCR adjusting                       |
|                        | Generation of PSI/SI table          |
|                        | automatically                              |

| Stream output          | 12 SPTS (8/16/20/24 SPTS) IP or 1MPTS output over UDP/RTP, |
|                        | 1x 1000Base-T Ethernet interface     |
|                        | ASI output (optional) as copy of the multiplexed MPTS |

| System function        | Network management (WEB-IF)         |
|                        | English language menu               |
|                        | Firmware upgrade by Web-Browser     |

| Miscellaneous          | Dimension (W×L×H)                    |
|                        | 482mm×410mm×44mm                     |
|                        | Approx weight                        |
|                        | 8kg                                  |
|                        | Environmental cond.                 |
|                        | 0...45°C (work); -20...80°C (Storage) |
|                        | Power requirements                   |
|                        | AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz |
|                        | Power consumption                    |
|                        | 70W                                  |

**Corresponding products:**
- IP to 16 QAM DVB-C Modulator HDC-5016
- IPQAM-801 single QAM Modulator with 8 TV services for hospitality content addon as i.e. INFO-Channels
- Digital Signage: IP Decoder HDD-275
- IPTV Middleware Server OMNISCREENTV
- BLANKOM IPTV STB: 7500+ / 6600+