01. ATSC Standard (8VSB)
02. DVB-C Standard (QAM)
03. Who is HUTON
ATSC Standard (8VSB) _Designed in Korea only_

Tips
- 8VSB based system configuration
- DTVs in Korea is only available at 8VSB
## ATSC Standard (8VSB) System characteristics

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>8VSB REMODULATOR (HER-1000)</th>
<th>8VSB ENCODULATOR (HEV-1000EN)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Performance</strong></td>
<td>• Demodulation of RF(8VSB) received from air</td>
<td>• MPEG II SD video encoding with 19 Mbps max.</td>
</tr>
<tr>
<td></td>
<td>• Error correction &amp; removing of ghost</td>
<td>• Dolby AC3 2.0 or MPEG Layer II audio encoding</td>
</tr>
<tr>
<td></td>
<td>• 8VSB modulation and RF up-converting to CATV frequency</td>
<td>• Single encoder chip solution to prevent from discordance of video and audio lip-sink which has been traditional error</td>
</tr>
<tr>
<td></td>
<td>• Automatic system error monitoring and re-activation</td>
<td>• Input interface of Component(480i) or Composite A/V, S-Video</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• With 19 Mbps of video encoding, the video quality is better than competitors only with 15 Mbps max.</td>
</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>• Developed in 2003 and has proved by several broadcaster</td>
<td>• HEV-1000EN has a function of MPEG II SD Encoder, Remux, PSIP and 8VSB Modulator, which are traditional configuration for the digital broadcasting, in 1RU unit</td>
</tr>
<tr>
<td></td>
<td>• Automatic system error detection</td>
<td>• Through the unification of several units, it removed the traditional problems can be happened during the system integration</td>
</tr>
<tr>
<td></td>
<td>• Automatic system re-activation</td>
<td>• More than 100 units already installed in several premium hotels and government office in Korea</td>
</tr>
<tr>
<td><strong>Economic Efficiency</strong></td>
<td>• Developed by our-own technology</td>
<td>• Through the unification of traditional configuration, this system is much better competitive in initial equipment cost</td>
</tr>
<tr>
<td></td>
<td>• More competitive price structure compare with overseas competitors such as K-tech</td>
<td>• Almost more than 50% of equipment cost can be saved when it compared with traditional configuration</td>
</tr>
<tr>
<td></td>
<td>• 24 hrs standby for the emergency case</td>
<td></td>
</tr>
</tbody>
</table>
DVB-C Standard (QAM)  

Designed as a world-wide CATV standard

- QAM based system configuration
- Exportable DTVs get both QAM & 8VSB
- General configuration for in-building broadcasting
## DVB-C Standard (QAM)

### System characteristics

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>8VSB to QAM TRANSCODER (HER-1000VQ)</th>
<th>QAM ENCODULATOR (HEQ-1000)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Performance</strong></td>
<td>• Demodulation of RF(8VSB) received from air                                                                                 • MPEG II SD video encoding with 15 Mbps max.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• QAM modulation for the output to CATV                                                                                       • MPEG Layer II audio encoding</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Error correction &amp; removing of ghost                                                                                         • MPTS(ASI) or SPTS(ASI) out</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Automatic system error monitoring and re-activation                                                                        • Single encoder chip solution to prevent from discordance of video and audio lip-sink which has been traditional error</td>
<td></td>
</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>• Developed in 2003 and has proved by several broadcaster                                                                   • HEQ-1000 has a function of MPEG II SD Encoder, Remux, PSIP and 8VSB Modulator, which are traditional configuration for the digital broadcasting, in 1RU unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Automatic system error detection                                                                                             • Through the unification of several units, it removed the traditional problems can be happened during the system integration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Automatic system re-activation                                                                                               • Hotel Pay TV service company (Nxx Dxxxxx Ixxxxxxxxx) adopted this system as their digital CATV solution for premium hotels</td>
<td></td>
</tr>
<tr>
<td><strong>Economic Efficiency</strong></td>
<td>• Developed by our-own technology                                                                                         • Through the unification of traditional configuration, this system is much better competitive in initial equipment cost</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• More competitive price structure compare with overseas competitors such as K-tech                                             • Almost more than 50% of equipment cost can be saved when it compared with traditional configuration</td>
<td></td>
</tr>
</tbody>
</table>
Who is HUTON

About company

HUTON Co.,Ltd. (Human Technology On)

Establishment at 2002
Digital CATV solution
DTV network solution
INNO biz & MAIN biz

Digital In-building Broadcasting Solution

Increasing of digital broadcasting sources from satellite, cable TV encourages to convert the present analog H/E system to digital H/E system in In-building broadcasting field. Thus, Huton has devoted ourselves to localization of main digital broadcasting system and has tried to substitute ours for foreign technology. Based on these efforts, finally we became to provide the robust and cost-effective in-building broadcasting solution not only to the domestic customers but also overseas customers.

DTV Network Solution

According to the revitalization of digital cable broadcasting service, it made a requirements to convert cable broadcasting system with digital. To serve cable broadcasting efficiently without accidents, the service operators always have to check and response for the un-expected broadcasting accidents through several kinds of back-up solution such as fail-over switching. Thus, we developed and have provided fail-over switching system to the major domestic Telco companies.

Huton Co.,Ltd. was established with the spirit of technology innovation for digital broadcasting on 2002, and HUTON is an abbreviation of “Human Technology On” which is meaning of technology for human, technology by human, technology of human. In order to meet the trends of rapid growing technology for the digital broadcasting, we are developing the several kinds of digital broadcasting system, such as MPEG II Encoder, 8VSB or QAM modulator, with our own efforts continuously.
Who is HUTON

Accomplishment at the past 1 yr (2008~2009)

2009

- Jun : Lotte Hotel in JeJu [Conversion to Digital CATV system _ 32 channels]
- April : Gangneung City Council [Establishment of Digital self-broadcasting _ 2 channels]
- March : Korea Racing Association [Establishment of Digital self-broadcasting _ 1 channels]
- February : SkyLife [Establishment of DTV Network system _ DS3 distribution]
- January : Lotte Hotel in Seoul [Conversion to Digital CATV system _ 43 channels]
  Lotte Hotel in Jamsil [Conversion to Digital CATV system _ 40 channels]
  Contract with NTT DOCOMO Inter-touch for hotel digital CATV system (8VSB basis)
  SkyLife [Establishment of DTV Network system _ HD-SDI distribution]

2008

- December : Cheil Industries [Establishment of Digital self-broadcasting _ 3 channels]
  SkyLife [Establishment of DTV Network system _ HD-SDI distribution]
- November : KT [Establishment of DTV Network system _ DS3 distribution]
  LG Powercomm [Establishment of DTV Network system _ DS3 distribution]
- October : SamSung Electronics [Establishment of Digital self-broadcasting _ 5 channels]
- September : KT [Establishment of DTV Network system _ DS3 distribution]
- August : SkyLife & KT [Establishment of DTV Network system _ HD-SDI / DS3 distribution]
- July : National Intelligence Service [Establishment of Digital In-building broadcasting _ 7 channels]
  KT & SkyLife [Establishment of DTV Network system _ DS3 distribution]
- Jun : LG Powercomm [Establishment of DTV Network system _ DTV fail-over switching]
Who is HUTON

Contact point

Mr. Hoony Kim / Manager

Tel. : 82.2.851.4845
Fax. : 82.2.851.4850
Email : hoony@huton.co.kr
Web. : http://www.huton.co.kr

Need Design support for Digital In-building system?

Feel free to contact with me. Thanks