DVB-T2 vs DVB-T

<table>
<thead>
<tr>
<th></th>
<th>DVB-T2</th>
<th>DVB-T2 Lite</th>
<th>DVB-T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FEC</strong></td>
<td>LDPC + BCH</td>
<td>LDPC 16k only</td>
<td>CC + RS</td>
</tr>
<tr>
<td><strong>Code Rate</strong></td>
<td>1/2, 3/5, 2/3, 3/4, 4/5, 5/6</td>
<td>1/2, 3/5, 2/3, 3/4, 2/3, 1/3</td>
<td>1/2, 2/3, 3/4, 5/6, 7/8</td>
</tr>
<tr>
<td><strong>Constellation</strong></td>
<td>QPSK, 16 QAM, 64 QAM, 256 QAM</td>
<td>QPSK, 16 QAM, 64 QAM, 256 QAM</td>
<td>QPSK, 16 QAM, 64 QAM</td>
</tr>
<tr>
<td><strong>Guard Interval</strong></td>
<td>1/4, 1/8, 1/16, 1/32</td>
<td>1/4, 1/8, 1/16, 1/32</td>
<td>1/4, 1/8, 1/16, 1/32</td>
</tr>
<tr>
<td><strong>FFT size</strong></td>
<td>1, 2, 4, 8, 16, 32, 64, 128</td>
<td>2, 4, 8, 16, 32, 64, 128</td>
<td>2, 4, 8, 16, 32, 64, 128</td>
</tr>
<tr>
<td><strong>Scattered Pilots</strong></td>
<td>1%, 2%, 4%, 8% of total</td>
<td>2%, 8% of total</td>
<td>2%, 8% of total</td>
</tr>
<tr>
<td><strong>Continual Pilots</strong></td>
<td>0.25% of total</td>
<td>0.25% of total</td>
<td>2.6% of total</td>
</tr>
<tr>
<td><strong>Bandwidth</strong></td>
<td>1.7, 5, 6, 7, 8, 10 MHz</td>
<td>1.7, 5, 6, 7, 8 MHz</td>
<td>5, 6, 7, 8 MHz</td>
</tr>
<tr>
<td><strong>Max. Bandwidth</strong></td>
<td>50,34 Mb/s</td>
<td>4 Mb/s per PLP</td>
<td>31.66 Mb/s</td>
</tr>
</tbody>
</table>

DVB-T2 Framing

- T2 Super Frame
- T2 Frame
  - T2 Frame 0
  - T2 Frame 1
  - T2 Frame 2
  - FEF

- OFDM symbols
- Modulation
- FEC Frame
- T2-MI Packets

DVB-T2 digital TV broadcast architecture

- Transport Stream
- BaseBand Frame
- T2-MI Packets
- MPEG2 Transport Stream

T2-lite signal broadcast within PLP

- Composite signal containing T2-base and T2-lite

DVB-T2 digital TV broadcast architecture

- Receiver
- ON AIR
- ON AIR
- ON AIR

T2-lite overview

- Data rate
- Time
- T2 superframe
- T2-lite superframe

DVB-T2 overview

- T2-light overview
- Data rate
- Time
- T2 superframe
- T2-lite superframe

DVB-T2 vs DVB-T