# HD Technical Specifications

**Satellite:** Galaxy 13 at 127° West
**Transponder:** 22
**Uplink Frequency:** 6365 MHz
**Downlink Frequency:** 4140 MHz
**Downlink Polarization:** Horizontal
**L-Band Frequency:** 1010 MHz
**Modulation:** DVB-S2, 8PSK
**NET ID:** 1322

**Symbol Rate:** 30.0 MSym
**FEC:** 5/6
**HD Encoding:** MPEG-4
**Video PID:** 100
**Audio Encoding:**
Audio1 = PID 101
Audio2 = PID 102, DTMF Commercial Insertion

## Acceptable Receiver Models

**Cisco (Synamedia) D9800:**

- Tuning of one source channel on a single DVB-S2 8PSK PowerVu satellite multiplex.

- The source channel may be SD or HD, and encoded as MPEG2, AVC or HEVC.

- The source channel is decoded to SDI and/or HD-SDI, as well as analog composite video.

- The decode function supports decode of (2) Dolby or MPEG1L2 audio PIDs, to be inserted as PCM into the SDI/HD-SDI outputs, AES outputs and as balanced audio pairs.

- The decode function also supports a cue-tone generator output for supporting legacy ad-insertion equipment.

- The source channel is also transcoded to MPEG2 SD and MPEG2 HD format with the outputs available on ASI and MPEGOIP (GbE) transport interfaces.

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