



## HD Technical Specifications

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**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 Msps

**FEC:** 5/6

**HD Encoding:** MPEG-4

**Video PID:** 300

**Audio Encoding:**

Audio1 = PID 301

Audio2 = PID 302, DTMF Commercial Insertion

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## 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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