



Technical Specifications

Satellite: Galaxy 23 at 121° West

Transponder: 19C

Downlink Polarization: Horizontal

Downlink L-Band Frequency: 1070 MHz

VCT #: 938

Modulation: DVB-S2, 8PSK

Symbol Rate: 30.000000 Msps

FEC: 5/6 Combined

Feed Encryption: DigiCipher II

HD Encoding: MPEG-4 Virtual

Channel: 306 **Audio Encoding:**

Pair 1: AC-3: Dolby Digital 2-0 (Stereo)

Pair 2: AC-3: Left: DTMF Commercial Insertion

Tones, Right: Mono Program

DTMF Cue Tones: break start: 615* (8-second pre-roll), break end: 615#

Acceptable Receiver Models

Motorola DSR-4410MD – MPEG 4 output

- Multi-Service Decryptor to ASI & Gig-E output (up to 64 services)
- DVB-S2 8PSK, and DCII QPSK demodulation

Motorola DSR-4440 – MPEG 4 output

- Single-Service MPEG-2/4 HD/SD Decoder to Analog Composite video out
- Also provides single decrypted output service via ASI & Gig-E output
- 2RF/ASI input; 2 stereo audio output, 1 video output & 1 OSD
- Contact Closure & DTMF cue tone output
- DVB-S2 8PSK, TurboCode 8PSK, and DCII QPSK demodulation

Motorola DSR 4460 – MPEG 4 & SDI outputs

- Single-Service MPEG-2/4 HD/SD Decoder to Analog Composite video out
- Same feature set as DSR-4440, plus HD/SD-SDI Digital Video Output

Motorola DSR-6050 – MPEG 2 output

- Single-Service MPEG-4 HD Transcode to MPEG-2 HD ASI & Gig-E out
- DVB-S2 8PSK and DCII QPSK demodulation

Motorola DSR-6401 – MPEG 2 output (single channel)

- Single-decrypt transcoding with one transcoded MPEG 2 program stream
- ASI and Gig-E out
- Includes both HD and down converted SD MPEG 2 encoded services for one channel

Motorola DSR-6402 – MPEG 2 out (dual channel)

- Dual-decrypt transcoding with one transcoded MPEG 2 program stream
- ASI and Gig-E out
- Includes both HD and down converted SD MPEG 2 encoded services for two channels

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