



A Multi-Format Digital Satellite Receiver for Cable Programmers and Operators

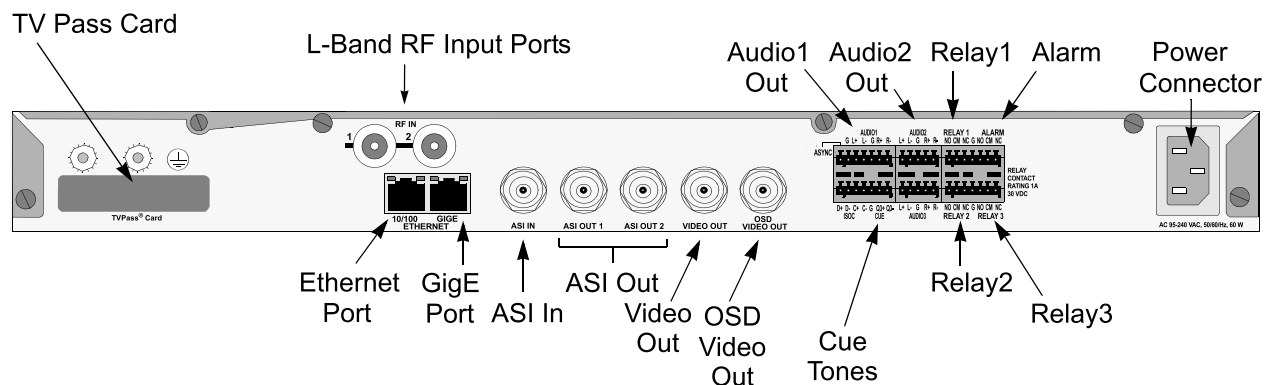
Highlights Include:

- Stackable 1RU chassis design
- 2 RF Inputs (L-Band)
- ASI input
- Multi-format MPEG-2/4 HD/SD processing
- Advanced Modulation support with DVB-S QPSK, and DVB-S2 QPSK/8PSK
- DigiCipher II conditional access control
- Dolby® Digital audio processing
- VBI reinsertion for closed caption
- Quick disconnect terminals for easy installation
- DTMF cue tones for local ad insertion
- Dual ASI and Gig-E transport outputs
- Composite video and dedicated video diagnostics outputs
- 10/100 BaseT Ethernet port for SNMP and web browser monitoring and control

The DSR-4440 Integrated Receiver/Decoder from Motorola brings revolutionary technology advances from a recognized leader in satellite program delivery. The DSR-4440 decodes MPEG-2 or MPEG-4 services and delivers outstanding video and audio performance. Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space.

The Motorola DSR-4440 comes equipped with industry standard output interfaces such as Gig-E and dual ASI outputs that enable seamless connections to headend equipment. With advanced modulation support, the DSR-4440 supports both DVB-S QPSK and DVB-S2 QPSK/8PSK.

| TECHNICAL SPECIFICATIONS | | Contact Closures | |
|----------------------------|---|-----------------------------------|------------------------------------|
| L-Band Input | | Number of Closures: 4 (1 alarm) | |
| Input Frequency: | 950 - 2150 MHz | Type: Form C | |
| Input Impedance: | 75 Ω | Ethernet | |
| Input Connectors: | Two (2) F-type | Connectors: | Two (2) RJ-45 |
| F-Connector: | 16V DC min/450 mA | Formats: | 10/100BaseT and 1000BaseT |
| Port-to-Port Isolation: | 40 db (minimum) | ASI Output (2) / Input (1) | |
| Digital Processing | | Format: | Asynchronous serial interface |
| Modulation Modes: | DVB-S QPSK, DVB-S2 QPSK/8PSK | Transmission: | Data byte and packet |
| Symbol Rates: | 1 to 31.25 Msps | Standard: | CENELEC EN 50083-9 |
| QSPK FEC Rates: | 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8 | Connector: | BNC |
| DVB-S2 FEC Rates: | 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 | Cue Tones | |
| Composite Video | | Signal Type: | Differential output |
| Frequency Response (NTSC): | ±0.9 dB, 1kHz - 4.2 MHz | Signal Level: | 0 dBm, ± 3 dB (600 Ω)/tone |
| Frequency Response (PAL): | ±0.9 dB, 1kHz - 4.8 MHz | Connector: | Quick disconnect terminal |
| Signal/Noise Ratio: | 57 dB (min) | Physical | |
| Differential Gain: | 4.0% p-p (max) (10% to 90% APL) | Width: | 18.9" (48cm) |
| Difference Phase: | 1.5 deg. (max) | Depth: | 20.5" (52.1cm) |
| Output Impedance: | 75 Ω | Height: | 1.65" (4.2cm) |
| Output Level: | 1.0 V p-p ± 10% | Weight: | 12 lb (5.5kg) approx |
| Audio | | Power Input: | 95-240 VAC, 50-60Hz, 60 W max |
| Output: | 2 stereo pair or 4 mono | Operating Temperature: | 0 to 50C |
| Output Level: | ±18.0 dBu, ±1.0 dB into 600 Ω balanced load, adjustable (0 to -18 dB) | Humidity: | 95%, relative maximum |
| Frequency Response: | ±1.0 dB, 20 Hz to 20 kHz | Display: | 2 line, 40 character LCD |
| Total Harmonic Distortion: | 0.4% or better at 1kHz | Other | |
| Signal/Noise Ratio: | 85 dB or better at 1 kHz RE: + 18 dBu, measured at 20 Hz to 20 kHz | Limited Warranty: | One year |
| Isolation, L/R: | 80 dB at 1 kHz | Compliance: | UL/CE listed/approved, FCC part 15 |
| Impedance: | 50 Ω | | |



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