



# DSR-6000

## Commercial Integrated Receiver/Decoder



An Advanced Feature Digital Satellite Receiver for Cable Programmers and Operators

### Highlights Include:

- Stackable 1RU chassis design
- 8 RF Inputs (L-Band)
- ASI input
- MPEG-2 Main Profile@High Level
- Advanced Modulation support with DVB-S QPSK, and DVB-S2 QPSK/8PSK
- DigiCipher II conditional access control
- Variable tuning from 4 MHz to 36 MHz
- 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



For more information regarding any of these features contact your Motorola sales representative.

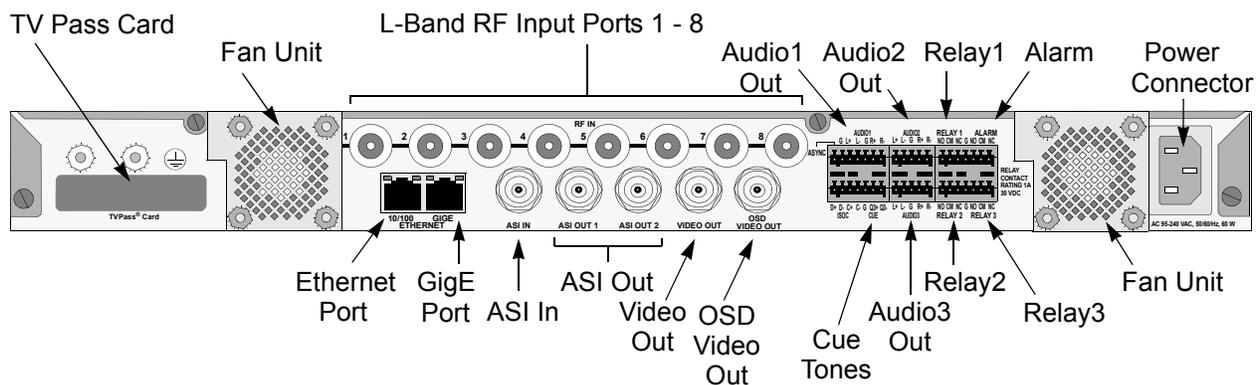
The DSR-6000 Integrated Receiver/Decoder from Motorola brings revolutionary technology advances from a recognized leader in satellite program delivery. Building on the existing 6000 IRD product family, the DSR-6000 is capable of decoding MPEG-2 services and delivering outstanding video and audio performance. Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space.

The Motorola DSR-6000 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-6000 supports both DVB-S QPSK and DVB-S2 QPSK/8PSK.

**SPECIFICATION SHEET**

DSR-6000

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



**MOTOROLA**  
 Motorola, Inc. Home & Networks Mobility  
 6450 Sequence Drive, San Diego, California 92121 U.S.A.  
 www.motorola.com/ipvideo 858-578-2222

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. DigiCipher is a registered trademark of General Instrument Corporation, a wholly-owned subsidiary of Motorola, Inc. Dolby Digital is a registered trademark of Dolby Laboratories; Dolby Digital is manufactured under license from Dolby Laboratories. All other product or service names are the property of their registered owners. © Motorola, Inc. 2009 All rights reserved. Features and functions subject to change without notice. 5875-0609-0K