

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	
L-Band Input 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)		Number of Closures: 4 (1 alarm) Type: Form C	
Digital Processing 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		Ethernet Connectors: Two (2) RJ-45 Formats: 10/100BaseT and 1000BaseT	
Composite Video 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 $\pm 10\%$		ASI Output (2) / Input (1) Format: Asynchronous serial interface Transmission: Data byte and packet Standard: CENELEC EN 50083-9 Connector: BNC	
Audio Output: 2 stereo pair or 4 mono (3rd output for maintenance channel only) Output Level: ± 18.0 dBu, ± 1.0 dB into 600 Ω balanced load, adjustable (0 to -18 dB) 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 Isolation, L/R: 80 dB at 1 kHz Impedance: 50 Ω		Cue Tones Signal Type: Differential output Signal Level: 0 dBm, ± 3 dB (600 Ω)/tone Connector: Quick disconnect terminal	
		Physical 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	
		Other Limited Warranty: One year Compliance: UL/CE listed/approved, FCC part 15	

