



# DSR-4550

## Commercial Integrated Receiver/Decoder



An Advance Feature Digital Satellite Receiver for Cable Programmers and Operators

### Highlights Include:

- Gig-E output for easy connection to digital cable headend products
- Advanced Modulation support with 8PSK TurboCod
- Digital component video output (SDI) with embedded audio
- AES digital audio output
- ASI input/output
- 8 RF Inputs (L-Band)
- MPEG-2 Main Level@Main Profile
- DigiCipher® II MegaPipe+ Support
- Variable tuning from 4 MHz to 36 MHz
- Dolby® Digital and MPEG layer II audio processing
- VBI reinsertion SID/AMOL-II, NABTS and closed caption
- DigiCipher II conditional access control
- Quick disconnect screw terminals for easy installation
- 1RU chassis design
- Bypass video and audio inputs
- DTMF cue tones for local ad insertion
- 10/100 BaseT Ethernet port for SNMP monitoring and control

- DSM-CC Encapsulated IP data output
- Dedicated video diagnostics output
- Over-the-air software download capability

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

The new DSR-4550 IRD from Motorola brings the latest technology advances from a recognized leader in satellite program delivery. Building on the DigiCipher II platform, the DSR-4550 IRD is affordable and easy to use. Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space. The DSR-4550 is designed to deliver excellent video and audio performance.

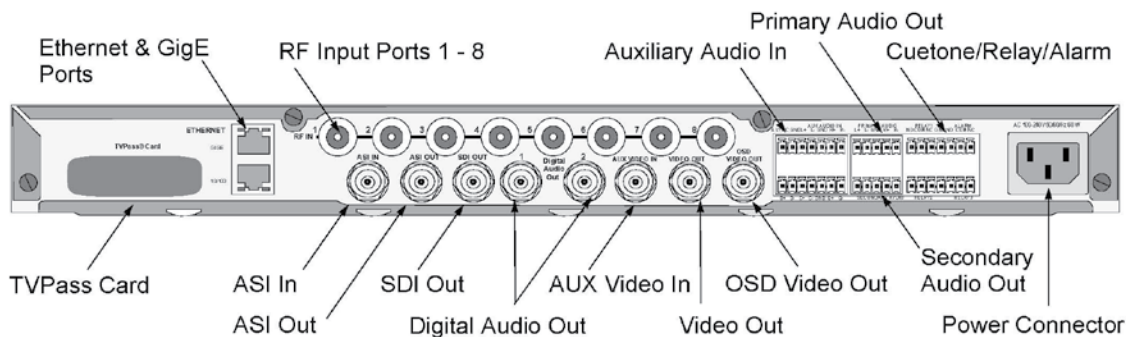
The DSR-4550 supports digital component video (SDI). The SDI output provides 2 channels of embedded audio to allow easy routing of video and audio through a cable facility. The discrete AES audio outputs can be used in combination with the SDI video without the need for audio de-embedding equipment. Dolby digital audio pass-through is available on both the SDI embedded audio and the discrete AES audio outputs.

Equipped with both ASI input/output and Gig-E output, the DSR-4550 is ready to connect easily to the rest of your headend equipment. The Gig-E port can be used to output a decrypted transport stream as well as encapsulated IP data while the 10/100 Base-T Ethernet connection allows for remote command/control capabilities via SNMP. With advanced modulation support, the DSR-4550 also supports 8PSK Turbo modulation.

**SPECIFICATION SHEET**

DSR-4550

TECHNICAL SPECIFICATIONS		SDI	
<p><b>L-Band Input</b></p> <p>Input Frequency: 950 - 2150 MHz                      Input Impedance: 75 Ω                      Input Connectors: Eight (8) F-type                      LNB Power Out                      F-Connector: 16V DC min/450 mA                      Port-to-Port Isolation: 40 db (minimum)</p>		<p>Output Level: 800 mV, ±80 mV                      Output Impedance: 75 Ω                      Standard: SMPTE-259M                      Connector: BNC</p>	
<p><b>DigiCipher II Processing</b></p> <p>Modulation Modes: OQPSK, QPSK, 8PSK turbocode                      QPSK Symbol Rates: 3.25, 4.88, 7.32, 9.76, 11.71, 14.63, 19.51, 29.27 Msps                      8PSK Turbo Symbol Rates: 1 to 30 Msps variable                      QSPK FEC Rates: 5/11 (19.51 &amp; 29.27 Msps only)                      1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8                      8SPK Turbo FEC Rates: 2/3 (1.92), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)</p>		<p><b>Digital Audio</b></p> <p>Standard: AES                      Connector: BNC                      Number of Channels: 2</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: 4.5% p-p (max) (10% to 90% APL)                      Difference Phase: 4.5 deg. (max)                      Output Impedance: 75 Ω                      Output Level: 1.0 V p-p ± 10%</p>		<p><b>Ethernet Output</b></p> <p>Formats: 10/100BaseT and Gig-E                      Connectors: Two (2) RJ-45</p>	
<p><b>Audio</b></p> <p>Output: 2 stereo pair or 4 mono                      Output Level: ±16.0 dBm, ±1.0 dB into 600 Ω balanced load adjustable (0 to -15 dB)                      Frequency Response: ±1.0 dB, 20 Hz to 20 kHz                      Total Harmonic Distortion: 0.4% or better at 1kHz                      Signal/Noise Ratio: 85 dB or better at 1 kHz RE: + 16 dBm, measured at 20 Hz to 20 kHz                      Isolation, L/R: 80 dB at 1 kHz                      Impedance: 50 Ω                      Connector: Quick disconnect screw terminal</p>		<p><b>ASI Input/Output</b></p> <p>Format: Asynchronous serial interface                      Transmission: Data byte and packet                      Standard: CENELEC EN 50083-9                      Connector: BNC</p>	
		<p><b>Cue Tones</b></p> <p>Signal Type: Differential output                      Signal Level: 0 dBm, ± 3 dB (600 Ω)/tone                      Connector: Quick disconnect screw terminal</p>	
		<p><b>Contact Closures</b></p> <p>Number of Closures: 4 (1 alarm)                      Type: Form C</p>	
		<p><b>Physical</b></p> <p>Width: 18.9" (48cm)                      Depth: 18.11" (46cm)                      Height: 1.65" (4.2cm)                      Weight: 12 lb (5kg) approx                      Power Input: 100-240 VAC, 50-60Hz, 60 W                      Operating Temperature: 0 to 40C                      Humidity: 95%, relative maximum</p>	
		<p><b>Other</b></p> <p>Limited Warranty: One year                      Compliance: UL listed/approved</p>	



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