



DSR-4530

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 TurboCode
- 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 SNMP monitoring and control
- Dedicated video diagnostics output

- Over-the-air software download capability

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

The new DSR-4530 IRD from Motorola brings the latest technology advances from a recognized leader in satellite program delivery. Building on the DigiCipher II platform, the DSR-4530 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-4530 is designed to deliver excellent video and audio performance. This receiver can output either NTSC or PAL video formats, automatically matching the programmer's video format.

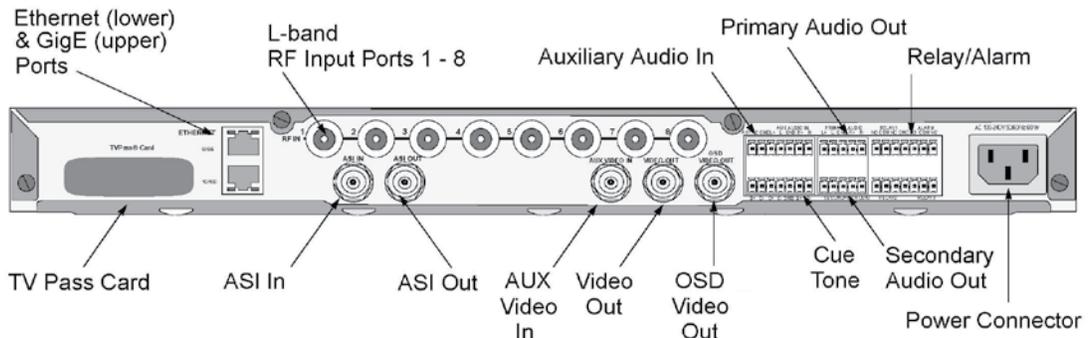
Equipped with DVB-ASI input/output and Gig-E output, the DSR-4530 is ready to connect easily to the rest of your headend equipment. The Gig-E port can be used to output a decrypted transport stream as well as encapsulated IP data while the 10/100 Base-T Ethernet connection allows for remote command/control capabilities via SNMP. For signaling existing headend equipment, a DSR-4530 DTMF tone generator interoperates with ad insertion systems, while three sets of contact closures are provided for general purpose device control.

With advanced modulation support, the DSR-4530 also supports 8PSK Turbo modulation.

SPECIFICATION SHEET

DSR-4530

| TECHNICAL SPECIFICATIONS | | Ethernet Output | |
|---------------------------------|--|-------------------------|---------------------------------|
| L-Band Input | | Formats: | 10/100BaseT and Gig-E |
| Input Frequency: | 950 - 2150 MHz | Connectors: | Two (2) RJ-45 |
| Input Impedance: | 75 Ω | ASI Input/Output | |
| Input Connectors: | Eight (8) F-type | Format: | Asynchronous serial interface |
| LNB Power Out | | Transmission: | Data byte and packet |
| F-Connector: | 16V DC min/450 mA | Standard: | CENELEC EN 50083-9 |
| Port-to-Port Isolation: | 40 db (minimum) | Connector: | BNC |
| DigiCipher II Processing | | Cue Tones | |
| Modulation Modes: | OQPSK, QPSK, 8PSK Turbocode | Signal Type: | Differential output |
| QPSK Symbol Rates: | 3.25, 4.88, 7.32, 9.76, 11.71, 14.63, 19.51, 29.27 Msps | Signal Level: | 0 dBm, ± 3 dB (600 Ω)/tone |
| 8PSK Turbo Symbol Rates: | 1 to 30 Msps variable | Connector: | Quick disconnect screw terminal |
| QSPK FEC Rates: | 5/11 (19.51 & 29.27 Msps only) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8 | Contact Closures | |
| 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) | Number of Closures: | 4 (1 alarm) |
| Composite Video | | Type: | Form C |
| Frequency Response (NTSC): | ±0.9 dB, 1kHz - 4.2 MHz | Physical | |
| Frequency Response (PAL): | ±0.9 dB, 1kHz - 4.8 MHz | Width: | 18.9" (48cm) |
| Signal/Noise Ratio: | 57 dB (min) | Depth: | 18.11" (46cm) |
| Differential Gain: | 4.5% p-p (max) (10% to 90% APL) | Height: | 1.65" (4.2cm) |
| Difference Phase: | 4.5 deg. (max) | Weight: | 12 lb (5kg) approx |
| Output Impedance: | 75 Ω | Power Input: | 100-240 VAC, 50-60Hz, 60 W |
| Output Level: | 1.0 V p-p ± 10% | Operating Temperature: | 0 to 40C |
| Audio | | Humidity: | 95%, relative maximum |
| Output: | 2 stereo pair or 4 mono | Other | |
| Output Level: | ±16.0 dBm, ±1.0 dB into 600 Ω balanced load adjustable (0 to -15 dB) | Limited Warranty: | One year |
| Frequency Response: | ±1.0 dB, 20 Hz to 20 kHz | Compliance: | UL listed/approved |
| 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 | | |



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