

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/AMOLII, 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

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

L-Band Input

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)

DigiCipher II Processing

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 & 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)

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: 4.5% 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%

Audio

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

Ethernet Output

Formats: 10/100BaseT and Gig-E
 Connectors: Two (2) RJ-45

ASI Input/Output

Format: Asynchronous serial interface
 Transmission: Data byte and packet
 Standard: CENELEC EN 50083-9
 Connector: BNC

Cue Tones

Signal Type: Differential output
 Signal Level: 0 dBm, ± 3 dB (600 Ω)/tone
 Connector: Quick disconnect screw terminal

Contact Closures

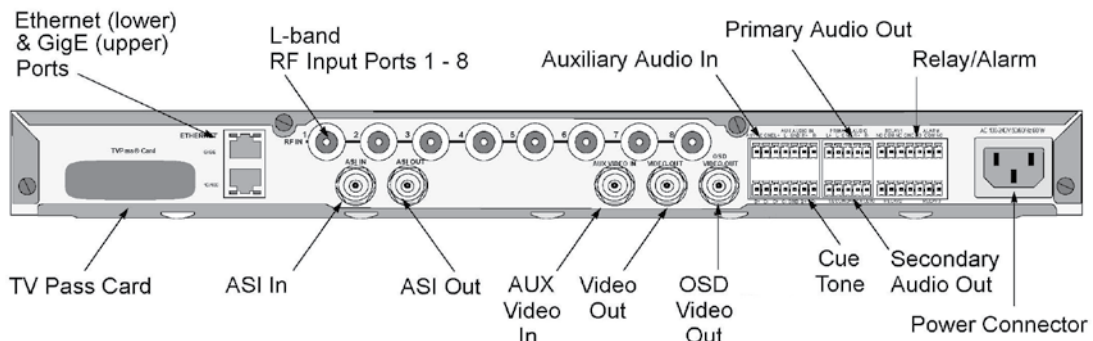
Number of Closures: 4 (1 alarm)
 Type: Form C

Physical

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

Other

Limited Warranty: One year
 Compliance: UL listed/approved



MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. 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. 2008 All rights reserved. Features and functions subject to change without notice. 5708-d-0608-0K