



# 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.

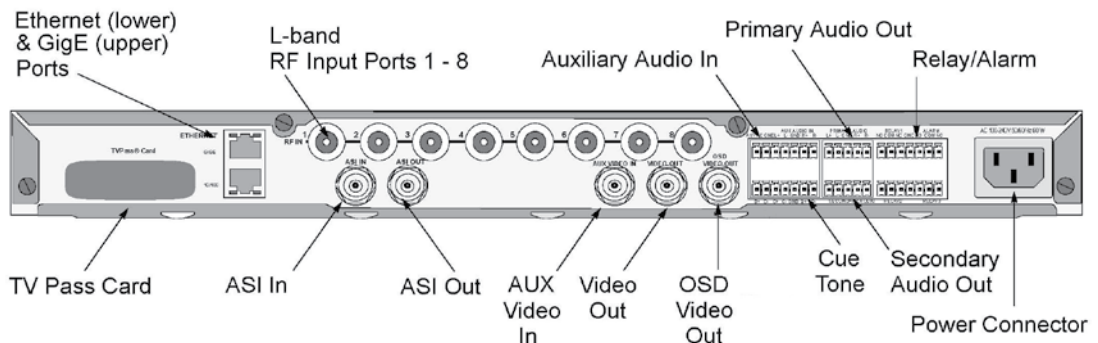
Equipped with DVB-ASI input/output and Gig-E output, the DSR-4530 is ready to connect easily to the rest of your headend equipment. The Gig-E port can be used to output a decrypted transport stream as well as encapsulated IP data while the 10/100 Base-T Ethernet connection allows for remote command/control 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	
<b>L-Band Input</b>		Formats:	10/100BaseT and Gig-E
Input Frequency:	950 - 2150 MHz	Connectors:	Two (2) RJ-45
Input Impedance:	75 Ω	<b>ASI Input/Output</b>	
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
<b>DigiCipher II Processing</b>		<b>Cue Tones</b>	
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	<b>Contact Closures</b>	
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)
<b>Composite Video</b>		Type:	Form C
Frequency Response (NTSC):	±0.9 dB, 1kHz - 4.2 MHz	<b>Physical</b>	
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
<b>Audio</b>		Humidity:	95%, relative maximum
Output:	2 stereo pair or 4 mono	<b>Other</b>	
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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