

**AN ADVANCE FEATURE DIGITAL SATELLITE RECEIVER
FOR CABLE PROGRAMMERS AND OPERATORS**
HIGHLIGHTS INCLUDE:

- Stackable 1RU chassis design
- 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
- Bypass video and audio inputs
- DTMF cue tones for local ad insertion
- ASI input and Gig-E/ASI output for easy connection to digital cable headend products
- 10/100 BaseT Ethernet port for datacasting and/or SNMP monitoring and control
- Dedicated video diagnostics output

DSR-4530

Commercial Integrated Receiver/Decoder



The new DSR-4530 IRD from Motorola brings the latest technology advances from the 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 outstanding video and audio performance. This receiver can output either NTSC or PAL video formats, automatically matching the programmer's video format.

For a variety of data delivery applications, the DSR-4530 is equipped with DVB-ASI input and output and both Gig-E and 10/100 Base T Ethernet ports. For signaling existing headend equipment, a DSR-4530 DTMF tone generator interoperates with ad insertion systems, while 3 sets of contact closures are provided for general purpose device control. Disaster recovery and network migration are effectively implemented by utilizing multiple RF input ports, a variable front-end tuner, the bypass mode of operation, and the ability to receive clear analog programming in addition to digital signals.

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:	QPSK and QPSK
Symbol Rates	3.25, 4.88, 7.32, 9.76, 11.71, 14.63, 19.51, 29.27 Msps
FEC Rates:	5/11 (19.51 & 29.27 Msps only), 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8
Eb/No:	4.0 db @ 19.5 Msps (FEC=3/4)

Composite Video

Frequency Response (NTSC):	±0.9 dB, 1 kHz - 4.2 MHz
Frequency Response (PAL):	±0.9 dB, 1 kHz - 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:	1.0V 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% 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

Data

Asynchronous Data Rate	1200, 2400, 4800, 9600 and 19200 bps
Isochronous Data Rate	19.2 kbps - 2.048 Mbps, 3.0, 4.5 and 9.0 Mbps
Connector	Quick disconnect screw terminals

Ethernet

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

ASI Output/Input

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

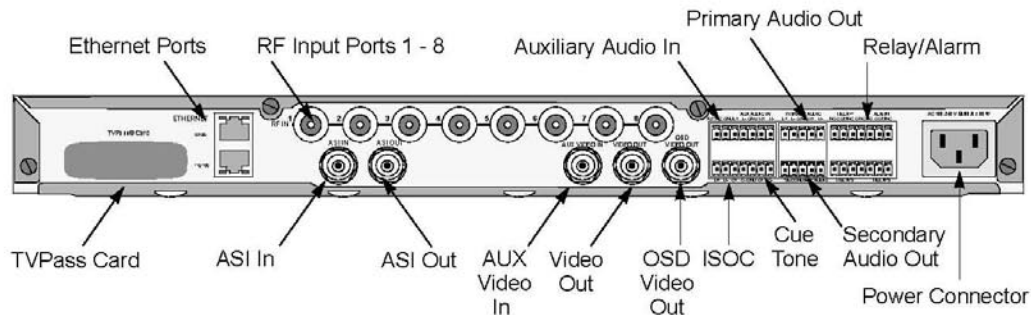
Number of Closures:	4 (1 alarm)
Type:	Form C

Physical

Operating Temperature:	0° to 40°C
Humidity:	95%, relative maximum
Dimensions:	48 cm/18.90" (W) x 46 cm/18.11" (D) x 4.2 cm/1.65" (H)
Weight:	12 lbs (approx.)
Power Input:	100-240 VAC, 50-60 Hz, 60 W
Display:	2 line, 40 character LCD

Other

Limited Warranty:	One year
UL/TUV/CE:	Listed/approved



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Features and functions subject to change without notice.
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