



DSR-4440

Commercial Integrated Receiver/Decoder

Highlights Include

- Stackable 1RU Chassis design
- 2 RF Inputs (L-Band)
- ASI Input
- Multi-format MPEG-2/4 HD/SD processing
- AFD support for processing proper SD output aspect ratio
- Advanced Modulation support with DVB-S QPSK, and DVB-S2 QPSK/8PSK
- DigiCipher II conditional access control
- Dolby® Digital audio processing
- VBI reinsertion for closed caption
- Quick disconnect terminals for easy installation
- DTMF cue tones for local ad insertion
- Dual ASI and Gig-E transport outputs
- Composite video and dedicated video diagnostics outputs
- 10/100 BaseT Ethernet port for SNMP and web browser monitoring and control

Product Overview

The DSR-4440 Integrated Receiver/Decoder from ARRIS brings revolutionary technology advances from a recognized leader in satellite program delivery. The DSR-4440 decodes MPEG-2 or MPEG-4, HD or SD services and delivers outstanding video and audio performance. Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space.

The Motorola DSR-4440 comes equipped with industry standard output interfaces such as Gig-E and dual ASI outputs that enable seamless connections to headend equipment. With advanced modulation support, the DSR-4440 supports both DVB-S QPSK and DVB-S2 QPSK/8PSK.

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Specifications

Input Frequency:	950 - 2150 MHz
Input Impedance:	75 Ω
Input Connectors:	Two (2) F-type
F-Connector:	16V DC min/450 mA
Port-to-Port Isolation:	40 db (minimum)
Digital Processing	
Modulation Modes:	DC-II QPSK, DVB-S QPSK, DVB-S2 QPSK/8PSK
Symbol Rates:	1 to 31.25 Msps
QSPK FEC Rates:	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8
DVB-S2 FEC Rates:	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Composite Video Output	
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:	4.0% p-p (max) (10% to 90% APL)
Difference Phase:	1.5 deg. (max)
Output Impedance:	75 Ω
Output Level:	1.0 V p-p $\pm 10\%$
Audio Output	
Output:	2 stereo pair or 4 mono
Output Level:	± 18.0 dBu, ± 1.0 dB into 600 Ω balanced load, adjustable (0 to -18 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: + 18 dBu, measured at 20 Hz to 20 kHz
Isolation, L/R:	80 dB at 1 kHz

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Contact Closures

Number of Closures: 4 (1 alarm)

Type: Form C

Ethernet

Connectors: Two (2) RJ-45

Formats: 10/100BaseT and 1000BaseT

ASI Output (2) / Input (1)

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 terminal

Physical

Width: 18.9" (48cm)

Depth: 20.5" (52.1cm)

Height: 1.65" (4.2cm)

Weight: 12 lb (5.5kg) approx

Power Input: 95-240 VAC, 50-60Hz, 60 W max

Operating Temperature: 0 to 50C

Humidity: 95%, relative maximum

Display: 2 line, 40 character LCD

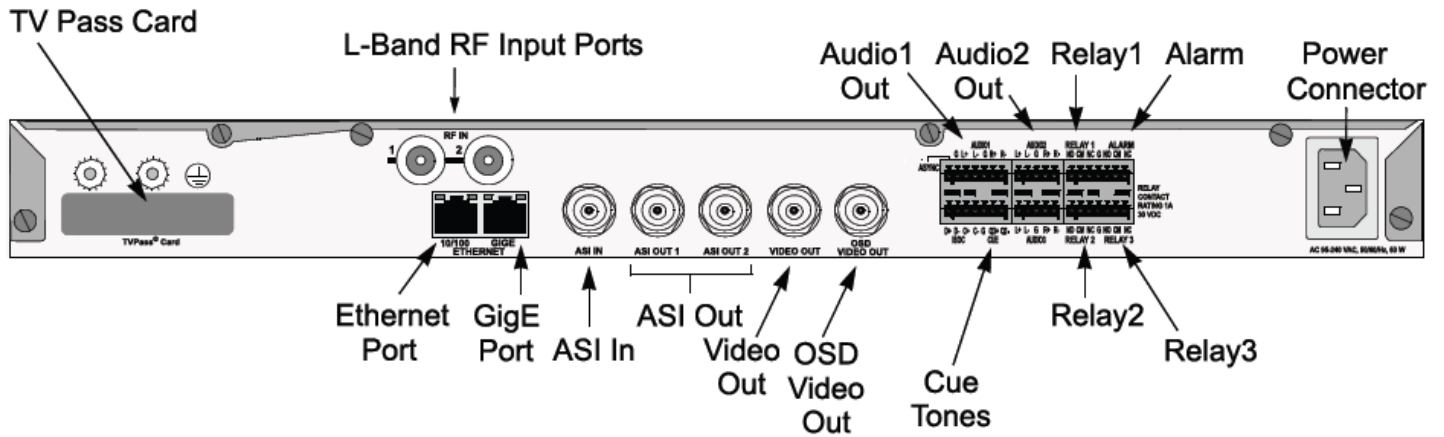
Other

Limited Warranty: One year

Compliance: UL/CE listed/approved, FCC part 15

Note: All features, functionality, and other product specifications are subject to change without notice or obligation. For more information regarding any of these features contact your ARRIS sales representative.

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