

DSR-4450

Commercial Integrated Receiver/Decoder





PRODUCT OVERVIEW

The DSR-4450 Integrated Receiver/Decoder from ARRIS brings revolutionary technology advances from the leader in premium satellite program delivery. The DSR-4450 can decode HEVC, MPEG-4 or MPEG-2 compressed video in HD or SD formats and deliver outstanding video and audio performance via analog/composite video output. The inclusion of DCII QPSK, DVB-S2, DVB-S2x and 8PSK Turbocode demodulation enables full compatibility with the latest satellite distribution networks.

The DSR-4450 comes equipped with industry standard input and output interfaces such as dual GigE and ASI enabling seamless connections to headend equipment and its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space.



KEY FEATURES

- Stackable 1RU Chasis design
- 2 RF Inputs (L-Band)
- Dual Gig-E and ASI transport inputs and outputs
- Multi-format HEVC, MPEG-4 and MPEG-2 HD and SD processing
- AFD support for processing proper SD output aspect ratio
- Configurable DCII subtitle overlay on decoded output
- DVB and DCII subtitle passthrough
- Advanced Modulation support with DCII QPSK, DVB-S2 8PSK, DVB-S2x 8PSK and 16APSK and 8PSK Turbocodes
- DigiCipher II conditional access control
- Dolby[®] Digital audio processing
- VBI reinsertion for closed caption
- DTMF cue tones for local ad insertion
- Front panel confidence monitor
- Gig-E port web browser monitoring and control
- SNMP monitoring
- Composite video output

SPECIFICATIONS

L-Band Input		
Input Frequency	950 - 2150 MHz	
Input Impedance	75 Ω	
Input Connectors	Two (2) F-type	
LNB Power Out	16-22V DC at 450 mA	
Port-to-Port Isolation	40 db (minimum)	
Digital Processing		
Modulation Modes	DC-II QPSK, DVB-S2, DVB-S2x and 8PSK Turbocodes	
Symbol Rates		
DCII QPSK	19.51 Msps and 29.27 Msps	
DVB-S2 8PSK	3 to 35 Msps	
DVB-S2x 8PSK/16APSK	3 to 35 Msps	
8PSK Turbocodes	1 to 30 Msps	
FEC Rates		
DCII QPSK	3/4	
DVB-S2 8PSK	3/5, 2/3, 3/4, 5/6, 8/9, 9/10	
DVB-S2x 16APSK	26/45, 3/5, 28/45, 23/36, 25/36, 13/18, 7/9, 77/90	
8PSK Turbocodes	2/3 (1.9), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)	
Aspect Ratio Conversion (HD down-conversion)	version) 4x3 center-cut, 4x3 letterbox, 14:9 and 16:9 (Anamorphic)	
Video Decoding		
Compression Formats	HEVC, MPEG-4 and MPEG-2	
HD Resolution	1080i60, 720p60 and 1080p23.98	
SD Resolution	528x480i , 544x480i, 704x480i, 720x480i, 528x576i (25 fps), 544x576i (25 fps), 704x576i (25 fps) and 720x576i(25 fps)	



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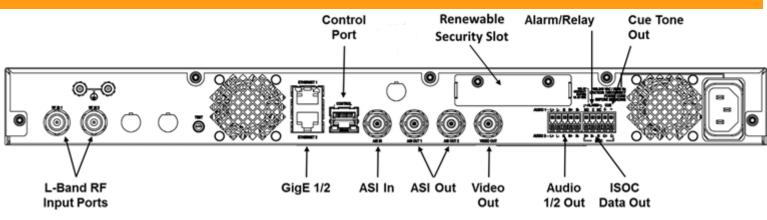
Composite Video Output (NTSC)			
Frequency Response	±0.75 dB, 1kHz–4.2 MHz		
Signal/Noise Ratio	57 dB (min)		
Differential Gain	4.0% p-p (max) (10% to 90% APL)		
Difference Phase	4 degrees p-p max. (10 to 90% APL)		
Output Impedance	75 Ω		
Output Level	1.0 V p-p ± 5%		
Connectors	One BNC		
Audio Output Compression Formats	Dolby AC-3 and MPEG-1 Audio Layer II		
Output	Two stereo pair or four mono		
Output Level	± 20.0 dBu, ± 1.0 dB into 600 Ω balanced load, adjustable (0 to -20 dB)		
Frequency Response	±1.0 dB p-p maximum, 20 Hz to 20 kHz		
Total Harmonic Distortion	0.25% maximum at 1kHz, measured at 20 Hz to 20 kHz		
Signal/Noise Ratio	86.2 dB minimum at 1 kHz, measured at 20 Hz to 20 kHz		
Isolation, L/R	80 dB at 1 kHz		
Audio Impedance	600 Ω load		
Ethernet Management Port			
Connector	RJ-45		
Format	10/100/1000BaseT		
GigE Input/Output Interface			
Connector	RJ-45 (2)		
Format	10/100/1000BaseT		
ASI Input/Output Interface			
Format	Asynchronous Serial Interface		
Transmission	Byte or packet mode		
Standard	CENELEC EN 50083-9		
Connectors	BNC (two out, one in)		
Contact Closures			
Number of Contact Closures	One (Alarm or ad insertion)		
Contact Closure Type	Form C, SPDT		
Cue Tones			
Signal Type	Differential output		
Signal Level	0 dBm, \pm 3 dB (600 Ω)/tone		
Connector	Quick disconnect terminal		



SPECIFICATIONS (CONTINUED)

Physical		
Width	18.9 in (48cm)	
Depth	20.5" (52.1cm)	
Height	1.65 in (4.2cm)	
Weight	12 lb (5.5kg) approx	
Power Input	100-240 VAC, 47-63Hz, 50 W max	
Operating Temperature	0 °C to 50 °C	
Humidity	95% relative maximum	
Display	2.2" color LCD	
Other		
Limited Warranty	One year	
Compliance	UL listed/approved, FCC part 15	

DSR-4450 REAR PANEL



MODEL AND ORDERING INFORMATION			
Model Name	Part Number	Description	
DSR-4450	612302-001-00	Single Channel Decoder	