

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 and 8PSK Turbocode demodulation enables full compatibility with the latest satellite distribution networks.

The DSR-4450 comes equipped with industry standard output interfaces such as dual GigE and ASI that enable 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) and 1 ASI Input
- · Multi-format HEVC, MPEG-4 and MPEG-2 HD and SD processing
- Composite video output
- AFD support for processing proper SD output aspect ratio
- · DCII subtitle overlay on decoded output
- DVB and DCII subtitle passthrough
- Advanced Modulation support with DCII QPSK, DVB-S2 8PSK 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
- · Dual ASI and Gig-E transport outputs to distribute PID Aliased user preferred service
- · Web browser monitoring and control

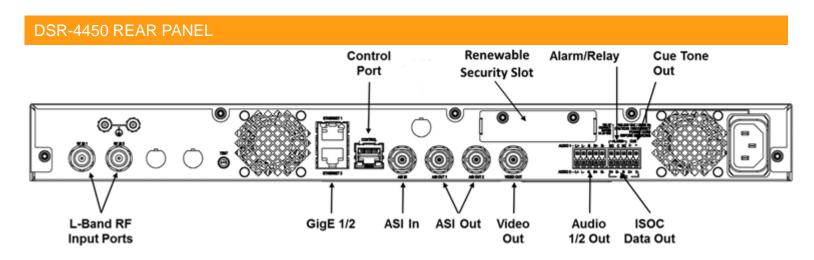
SPECIFICATIONS	
L-Band Input	
Input Frequency	950 - 2150 MHz
Input Impedance	75 Ω
Input Connectors	Two (2) F-type
LNB Power Out	16-22V DC at 450 mA
Port-to-Port Isolation	40 db (minimum)
Digital Processing	
Modulation Modes	DC-II QPSK, DVB-S2 8PSK and 8PSK Turbocodes
Symbol Rates	
DCII QPSK	19.51 Msps and 29.27 Msps
DVB-S2 8PSK	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
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)	4x3 center-cut, 4x3 letterbox, 14:9 and anamorphic
Video Decoding	
Compression Formats	HEVC, MPEG-4 and MPEG-2
HD Resolution	1080i60 and 1080p23.98
SD Resolution	528x480i , 544x480i, 704x480i and 720x480i
Audio Decoding	
Compression Formats	Dolby AC-3 and MPEG-1 Audio Layer II



SPECIFICATIONS (CONTINU	ED)	
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		
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 Interface		
Connector	RJ-45 (2)	
Format	10/100/1000BaseT	
ASI 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			



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

CUSTOMER CARE

Contact Customer Care for product information and sales:

- · United States: 866-36-ARRIS
- · International: +1-678-473-5656

DSR-4450 **365-095-32588**

(rev x2 8-2017