ARRIS

DSR-4440

Commercial Integrated Receiver/Decoder

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 ARRIS 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.

KEY FEATURES

- Stackable 1RU Chasis design
- 2 RF Inputs (L-Band) and 1 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
- DTMF cue tones for local ad insertion
- Dual ASI and Gig-E transport outputs
- Composite video and dedicated video diagnostics outputs
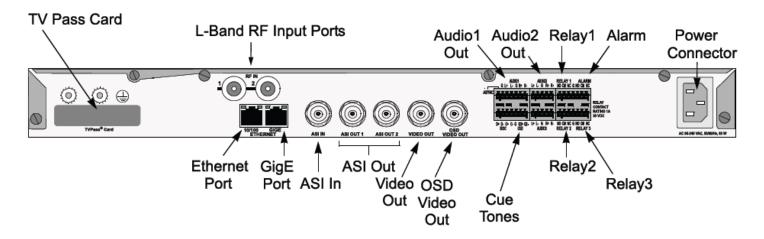- 10/100 BaseT Ethernet port for SNMP and web browser monitoring and control

SPECIFICATIONS

L-Band Input	
Input Frequency	950 - 2150 MHz
Input Impedance	75 Ω
Input Connectors	Two (2) F-type
LNB Power Out	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, 8PSK Turbocodes
Symbol Rates	1 to 31.25 Msps
FEC Rates	
QPSK	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8
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
Composite Video Output	
Frequency Response (NTSC)	$\pm$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%
Connectors	Two BNC (one with OSD)

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SPECIFICATIONS (CONTINUED)

Audio Output

Output	Two stereo pair or four 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
Audio Impedance	600 Ω load

Ethernet Management Port

Connector	RJ-45
Format	10/100BaseT

GigE Interface

Connector	RJ-45
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	Four (one alarm)
Contact Closure Type	Form C

Cue Tones

Signal Type	Differential output
Signal Level	0 dBm, ± 3 dB (600 Ω)/tone
Connector	Quick disconnect terminal

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	95-240 VAC, 50-60Hz, 60 W max
Operating Temperature	0 °C to 50 °C
Humidity	95% relative maximum
Display	Two line, 40-character LCD

Other

Limited Warranty	One year
Compliance	UL listed/approved, FCC part 15

DSR-4440 REAR PANEL

MODEL AND ORDERING INFORMATION

Model Name	Part Number	Description
DSR-4440	570450-001-00	Single Channel Decoder

CUSTOMER CARE

Contact Customer Care for product information and sales:

• United States: 866-36-ARRIS

• International: +1-678-473-5656