

DSR-7401

Commercial Integrated Satellite Receiver High Density SD Transcoder



PRODUCT OVERVIEW

The DSR-7401 Transcoder IRD from ARRIS provides a high-quality cost effective solution for service continuity as Programmers sunset their satellite SD service distribution. Utilizing the latest modulation and video compression technologies, the DSR-7401 down-converts and transcodes up to 12 input HD video sources simultaneously across four satellite transponders, from a single Programmer, while also passing the decrypted input services. Customizable multiplex creation with Statmux output provides highly flexible transport stream grooming options and ensures delivery of the highest quality video.

Support for HEVC and MPEG-4 video compression inputs combined with DVB-S2, DVB-S2x and 8PSK Turbocode demodulation enables full compatibility with the latest satellite distribution networks. The flexibility offered by 4 active RF tuners with retune capability simplifies satellite network design and permits trouble-free network modifications.

The high density transcoding enables the DSR-7401 to replace up to 12 single channel satellite receivers. The efficient use of rack space and low power consumption make this transcoder IRD an ideal solution for today's modern digital headends.



KEY FEATURES

- DSR-7401 provides up to 12 transcoded SD output services from HD inputs
- Simultaneously receives transport streams from up to 4 satellite transponders (single programmer)
- Dual Gig-E and ASI transport inputs and outputs
- HEVC and MPEG-4 HD inputs
- MPEG-2 and MPEG-4 SD outputs
- · Statistical multiplexed output services for enhanced video quality
- Front panel confidence monitor
- Advanced Modulation support with DVB-S2 8PSK, DVB-S2x 8PSK and 16APSK and 8PSK Turbocodes
- 4 RF inputs (L-Band)
- Configurable DCII subtitle overlay on transcoded video output
- Decryption and pass-through of input video services
- DigiCipher[®] II conditional access control
- Gig-E port web browser monitoring and control
- SNMP monitoring
- One RU design for rack space savings
- Low power consumption provides operational cost savings

SPECIFICATIONS

L-Band Input		
Input Frequency	950 - 2150 MHz	
Input Impedance	75 Ω	
Input Connectors	Four (4) F-type	
LNB Power Out	16V DC min/450 mA	
Port-to-Port Isolation	40 db (minimum)	
Digital Processing		
Modulation Modes	DVB-S2, DVB-S2x and 8PSK Turbocodes	
Symbol Rates		
DVB-S2/8PSK	3 to 35 Msps	
DVB-S2x/16APSK	3 to 35 Msps	
8PSK Turbocodes	1 to 30 Msps	
FEC Rates		
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 (1.92), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)	
Transcoder Inputs		
Compression Formats	HEVC and MPEG-4	
HD Resolution	1080i60, 720p60 and 1080p23.98	
Transcoder Outputs		
Compression Formats	MPEG-4 and MPEG-2	
SD Resolution	528x480i , 544x480i, 704x480i and 720x480i	
Aspect Ratio Conversion (HD down-conversion)	4x3 center-cut, 4x3 letterbox, 14:9 and 16:9 (Anamorphic)	

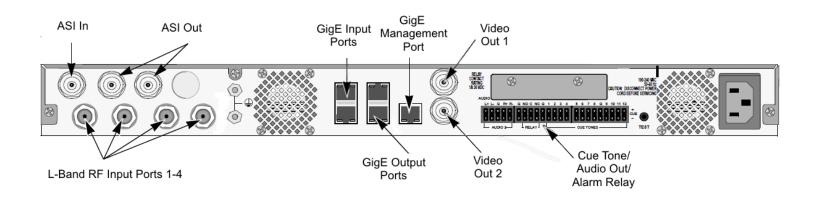


SPECIFICATIONS (CONTINUED)

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Composite Video Output (Monitoring Only)		
Frequency Response (NTSC)	±0.9 dB, 1kHz–4.2 MHz	
Output Impedance	75 Ω	
Output Level	1.0 V p-p ± 10%	
Connectors	Two BNC	
Audio Passthrough (2 streams per service)		
Compression Formats	Dolby AC-3 and MPEG-1 Audio Layer II	
Audio Output (Monitoring Only)		
Compression Formats	Dolby AC-3 and MPEG-1 Audio Layer II	
Output	Two stereo pair or four mono	
Frequency Response	1.0 dB p-p maximum, 20 Hz to 20 kHz	
Audio Impedance	600 Ω load	
Peak Audio Level	±20.0 dBu ± 1.0 dB	
Connectors	Quick disconnect spring cage plug connector	
Ethernet Management Port		
Connector (quantity 1)	RJ-45	
Format	10/100BaseT	
GigE Input/Output Interface		
Connector (quantity 4)	RJ-45 (two out, two in) GigE input not currently supported	
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/Cue Tones		
Number of Contact Closures	One (alarm)	
Contact Closure Type	Form C	
Number of Cue Tone Outputs	12	
Physical		
Width	19.0 in (48.3cm)	
Depth	24.9 in (63 cm)	
Height	1.75 in (4.4cm)	
Weight	17.6 lb (8 kg)	
Power Input	100-240 VAC, 50-60Hz, 100W 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-7401 REAR PANEL



MODEL AND ORDERING INFORMATION			
Model Name	Part Number	Description	
DSR-7401	596912-001-00	12 channel HD to SD Transcoder	

CUSTOMER CARE

Contact Customer Care for product information and sales:

· United States: 866-36-ARRIS

• International: +1-678-473-5656

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