

DSR-7401

**COMMERCIAL INTEGRATED SATELLITE RECEIVER,
HIGH DENSITY SD TRANSCODER**



PRODUCT OVERVIEW

The new 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, all from a single Programmer. Customizable multiplex creation with Statmux output provides highly flexible transport stream grooming options and ensures delivery of the highest quality video.

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
- One RU design for rack space savings
- Low power consumption provides operational cost savings
- Simultaneously receives transport streams from up to 4 satellite transponders (single programmer)
- Statistical multiplexed output services for enhanced video quality
- MPEG-4 HD inputs
- MPEG-2 SD outputs
- Decryption and pass-through of input video services
- 4 RF inputs (L-Band)
- Advanced DVB-S2x demodulation
- Dual Gig-E outputs
- Front panel confidence monitor
- DigiCipher® II conditional access control
- Ethernet port for configuration via web browser

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-S2x, DVB-S2 and 8PSK Turbocodes
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Symbol Rates

DVB-S2x:	3 to 45 Msps
DVB-S2:	3 to 33 Msps
8PSK Turbocodes:	1 to 30 Msps

FEC Rates

DVB-S2x/16APSK:	2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 26/45, 3/5, 28/45, 23/36, 25/36
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)
DVB-S2/QPSK:	3/5, 2/3, 3/4, 5/6, 8/9, 9/10

Transcoder Inputs

Compression Formats	MPEG-4
HD Resolution	1080i60, 720p60 and 1080p23.98

Transcoder Outputs

Compression Formats	MPEG-2
SD Resolution	528x480i , 544x480i, 704x480i and 720x480i
Aspect Ratio Conversion (HD down-conversion)	4x3 center-cut, 4x3 letterbox and 14:9

Specifications (continued)

Composite Video Output

Frequency Response (NTSC)	±0.75 dB, 1kHz - 4.2 MHz
Output Impedance	75 Ω
Output Level	1.0 V p-p ± 10%
Connectors	Two BNC

Audio Output

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	10/100/1000BaseT

GigE Interface

Connector (quantity 4)	RJ-45 (two out, two in) GigE input not currently supported
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/Cue Tones

Number of Contact Closures	One (alarm)
Contact Closure Type	Form C
Number of Cue Tone Outputs	12

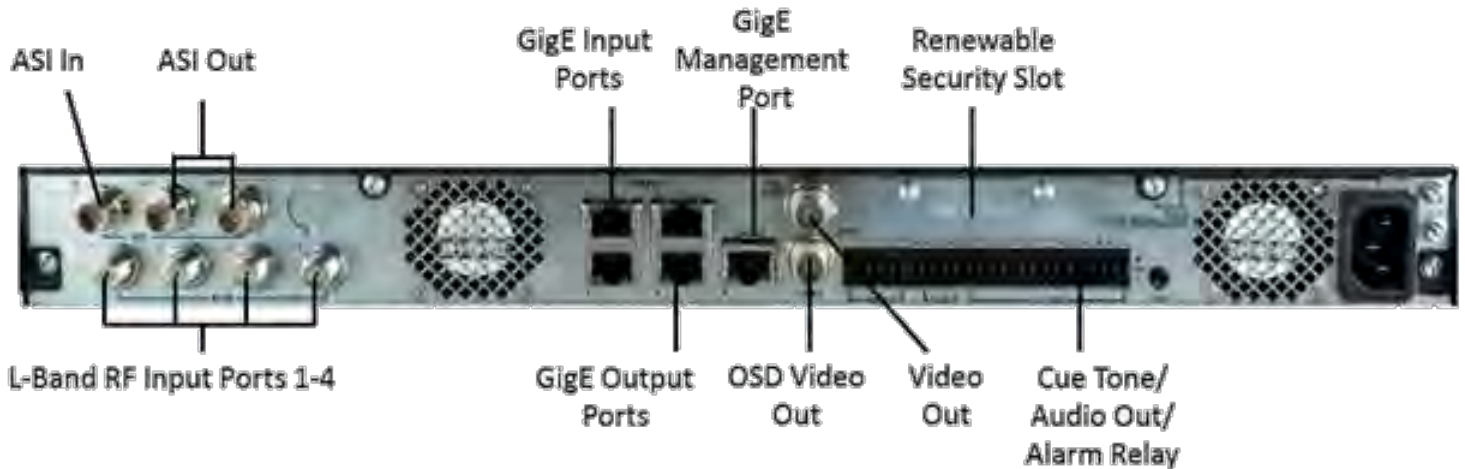
Physical

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 40 °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.

Specifications are subject to change without notice.

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365-095-31661 x.1 12/16