



## DSR-7400 Series



# Commercial Integrated Satellite Receiver/Transcoder

### Highlights

- DSR-7412 provides up to 24 transcoded output services depending on license purchases (12 HD and 12 down-converted SD)
- DSR-7401 transcodes and down-converts up to 12 HD video services to SD for cable/Telco distribution
- Passthrough of input video services
- Closed Loop Statistical Multiplex output for both HD and SD services
- HEVC, MPEG-4 and MPEG-2 inputs supported up to 4k video resolution
- DVB-S2x advanced modulation support
- 4 RF inputs (L-Band)
- Simultaneously receives transport streams from up to 4 satellite transponders
- ASI Input
- Dual GigE inputs and outputs
- AFD processing support
- Front panel confidence monitor
- DigiCipher® II conditional access control
- Ethernet port for SNMP and web browser monitoring and control
- One RU chassis design

### Product Overview

The DSR-7400 series is ARRIS's next generation commercial satellite receiver/transcoder platform engineered for cost-effective high density transcoding. Support for HEVC, MPEG-2 and MPEG-4 video compression inputs combined with DVB-S2x demodulation enables full compatibility with next generation satellite distribution networks. The flexibility offered by 4 active RF tuners with retune capability simplifies satellite network design and permits trouble-free network modifications .

Packaged in a one RU chassis, the density of the DSR-7400 series creates both headend rack space and power consumption savings compared to traditional transcoding receivers.

The DSR-7400 comes equipped with industry standard output interfaces such as dual GigE and ASI that enable seamless connections to headend equipment.

Models in the DSR-7400 series include:

- DSR-7401
- DSR-7403
- DSR-7412

# DSR-7400 Commercial Integrated Satellite Receiver/Transcoder

## Model and Ordering Information

### SD Output Transcoder

Supports MPEG-2, MPEG-4 and HEVC HD (up to 4k) and/or SD inputs transcoded to MPEG-4 or MPEG-2 SD outputs.

Model Name	Part Number	Description
DSR-7401	596912-001-00	12 channel HD or SD to SD Transcoder.

### HD and SD Output Transcoders

Each model supports MPEG-2, MPEG-4 and HEVC HD (up to 4k) and/or SD inputs transcoded to MPEG-4 or MPEG-2 HD and SD outputs.

Model Name	Part Number	Description
DSR-7403	596913-001-00	Supports up to 3 channels of HD/SD transcoding depending on license purchases.
DSR-7412	596916-001-00	Supports up to 12 channels of HD/SD transcoding depending on license purchases.
DSR-7400 Channel License	599039-001-00	Channel upgrade license. Includes 1 channel of HD to HD and SD transcoding

# DSR-7400 Commercial Integrated Satellite Receiver/Transcoder

## Specifications

### L-Band Input

Input Frequency	950 - 2150 MHz
Input Impedance	75 $\Omega$
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
Symbol Rates	
8PSK Turbocodes	1 to 30 Msps
DVB-S2x:	3 to 45 Msps
DVB-S2:	3 to 33 Msps
FEC Rates	
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-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
DVB-S2/QPSK:	3/5, 2/3, 3/4, 5/6, 8/9, 9/10

### Composite Video Output

Frequency Response (NTSC)	$\pm 0.75$ dB, 1kHz - 4.2 MHz
Output Impedance	75 $\Omega$
Output Level	1.0 V p-p $\pm 10\%$
Connectors	Two BNC (one with OSD)

### 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 $\Omega$ load
Output Level	$\pm 16.0$ dBu, $\pm 1.0$ dB into 600 $\Omega$ balanced
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)
Format	10/100/1000BaseT

# DSR-7400 Commercial Integrated Satellite Receiver/Transcoder

## Specifications

### 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 Closures	One (alarm)
Type	Form C

### Physical

Width	19.0 in (48.3cm)
Depth	24.9 in (63 cm)
Height	1.75 in (4.4cm)

### Weight

DSR-7401/DSR-7403	17.6 lb (8 kg)
DSR-7406	18.7 lb (8.5 kg)
DSR-7409	19.8 lb (9 kg)
DSR-7412	20.9 lb (9.5 kg)

### Power Input

DSR-7401/DSR-7403	100-240 VAC, 50-60Hz, 100W max
DSR-7406	100-240 VAC, 50-60Hz, 150W max
DSR-7409	100-240 VAC, 50-60Hz, 200W max
DSR-7412	100-240 VAC, 50-60Hz, 250W max

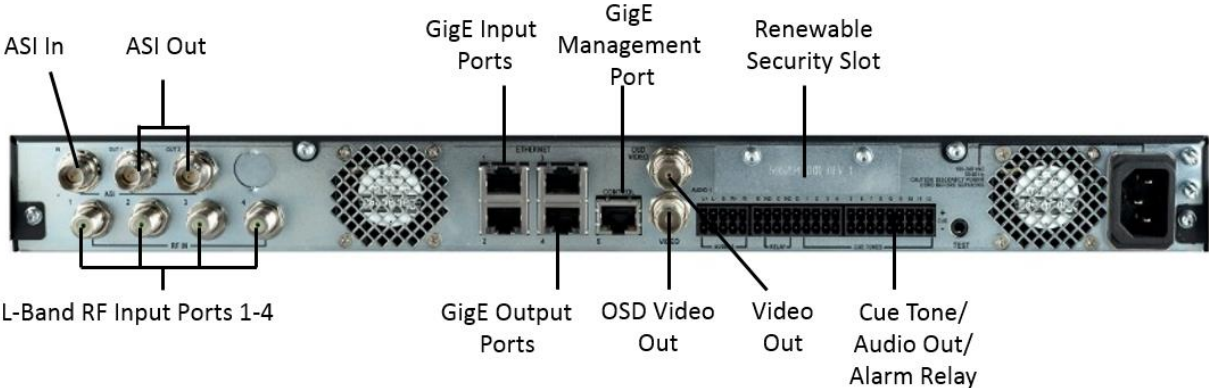
Operating Temperature	0 °C to 40 °C
Humidity	95% relative maximum
Display	2.2" color LCD

### Other

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

**Note:** All features, functionality, and other product specifications are subject to change without notice or obligation.

# DSR-7400 Commercial Integrated Satellite Receiver/Transcoder



For more information regarding any of these features contact your ARRIS sales representative.

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