DSR-7403

Commercial Integrated Satellite Receiver/Transcoder

Highlights

- DSR-7403 provides up to 3 transcoded output services (3)

- Passthrough of input video services

- MPEG-4 to MPEG-2 transcoding

- 4 RF inputs (L-Band)

- Simultaneously receives transport streams from up to 2 satellite transponders

- Dual GigE outputs

- Front panel confidence monitor

- DigiCipher® II conditional access control

- One RU chassis design

Product Overview

The DSR-7403 is ARRIS's next generation commercial satellite receiver/transcoder platform engineered for cost-effective high density transcoding. Support for MPEG-4 to MPEG-2 transcoding combined with DVB-S2 demodulation enables full compatibility with next generation satellite distribution networks. The flexibilty offered by 2 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-7403 creates both headend rack space and power consumption savings compared to traditional transcoding receivers.

The DSR-7403 comes equipped with industry standard output interfaces such as dual GigE and ASI that enable seamless connections to headend equipment.

DSR-7403 Commercial Integrated Satellite Receiver/Transcoder

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 Mode	DVB-S2/8PSK
Symbol Rate	
DVB-S2:	30 Msps
FEC Rate	
DVB-S2/8PSK:	5/6

Composite Video Output (Source Monitoring)

No VBI in initial release	
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 (one with OSD)

Audio Output (Source Monitoring)

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
Output Level	±16.0 dBu, ±1.0 dB into 600 Ω balanced
Connectors	Quick disconnect spring cage plug connector

Ethernet Management Port

Connector (quantity 1)	RJ-45
Format	10/100/1000BaseT

GigE Output

Connector (quantity 2)	RJ-45
Format	10/100/1000BaseT

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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

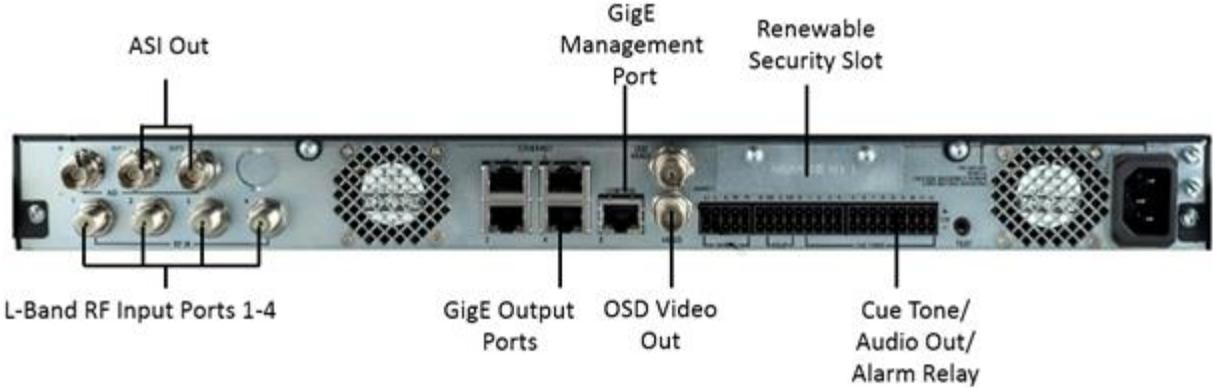|	
Width	19.0 in (48.3cm)
Depth	24.9 in (63 cm)
Height	1.75 in (4.4cm)
Weight	17.6 lb (8 kg)
Power Input	100-240 VAC, 50-60Hz, 100W max
Operating Temperature	0 °C to 40 °C
Humidity	95% relative maximum
Display	2.2" color LCD

Other

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

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

DSR-7403 Commercial Integrated Satellite Receiver/Transcoder

Model and Ordering Information

Model Name	Part Number	Description
DSR-7403	596913-001-00	1 channel commercial IRD/Transcoder with capacity to license up to 2 additional HD/SD output transcoding channels.
DSR-7400 Receiver Channel License	599039-001-00	Channel upgrade license. Includes 1 channel of HD to HD and SD transcoding

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