PRODUCT OVERVIEW

The DSR-4460 Integrated Receiver/Decoder from ARRIS brings revolutionary technology advances from a recognized leader in satellite program delivery. The DSR-4460 can decode a MPEG-2 or MPEG-4, HD or SD service and deliver outstanding video and audio performance via HD/SD-SDI output or analog/composite video output. Its sleek packaging design fits in a standard 19” relay rack and requires only a single rack unit of space.

The ARRIS DSR-4460 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-4460 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
- Digital component video output (HD/SD-SDI) with embedded audio
- 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Frequency</td>
<td>950 - 2150 MHz</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>75 Ω</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Two (2) F-type</td>
</tr>
<tr>
<td>LNB Power Out</td>
<td>16V DC min/450 mA</td>
</tr>
<tr>
<td>Port-to-Port Isolation</td>
<td>40 db (minimum)</td>
</tr>
</tbody>
</table>

Digital Processing

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulation Modes</td>
<td>DC-II QPSK, DVB-S QPSK, DVB-S2 QPSK/8PSK, 8PSK Turbocodes</td>
</tr>
<tr>
<td>Symbol Rates</td>
<td>1 to 31.25 Msps</td>
</tr>
<tr>
<td>FEC Rates</td>
<td></td>
</tr>
<tr>
<td>QPSK</td>
<td>1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8</td>
</tr>
<tr>
<td>DVB-S2 8PSK</td>
<td>3/5, 2/3, 3/4, 5/6, 8/9, 9/10</td>
</tr>
<tr>
<td>8PSK Turbocodes</td>
<td>2/3 (1.9), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)</td>
</tr>
</tbody>
</table>

Aspect Ratio Conversion (HD down-conversion)

- 4x3 center-cut, 4x3 letterbox, 14:9 and anamorphic

Composite Video Output

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response (NTSC)</td>
<td>±0.9 dB, 1kHz – 4.2 MHz</td>
</tr>
<tr>
<td>Frequency Response (PAL)</td>
<td>±0.9 dB, 1kHz - 4.8 MHz</td>
</tr>
<tr>
<td>Signal/Noise Ratio</td>
<td>57 dB (min)</td>
</tr>
<tr>
<td>Differential Gain</td>
<td>4.0% p-p (max) (10% to 90% APL)</td>
</tr>
<tr>
<td>Difference Phase</td>
<td>1.5 deg. (max)</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>75 Ω</td>
</tr>
<tr>
<td>Output Level</td>
<td>1.0 V p-p ± 10%</td>
</tr>
<tr>
<td>Connectors</td>
<td>Two BNC (one with OSD)</td>
</tr>
</tbody>
</table>

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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

### HD/SD-SDI
- **Output Level**: 800 mV, ±80 mV
- **Output Impedance**: 75 Ω
- **Standard**: SMPTE-259M, SMPTE-292

### Ethernet Management Port
- **Connector**: BNC

### 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-4460 REAR PANEL

MODEL AND ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSR-4460</td>
<td>573584-001-00</td>
<td>Single Channel Decoder with HD/SD SDI Output</td>
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</tbody>
</table>

CUSTOMER CARE

Contact Customer Care for product information and sales:
- United States: 866-36-ARRIS
- International: +1-678-473-5656