



The DSR-4410 IRD from brings the latest technology advances from the recognized leader in satellite program delivery. Building on the DigiCipher® II platform, the DSR-4410 IRD is affordable and easy to use.

Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space. The DSR-4410 is designed to deliver outstanding video and audio performance. This receiver can output either NTSC or PAL video formats, automatically matching the programmer's video format. With a variable front-end and bypass capabilities, the DSR-4410 is ideally suited for network conversion from analog to digital.

Full VBI reinsertion on lines 10 - 22 for SID/AMOL I & II and NABTS is standard on the DSR-4410. Equipped with DVB-ASI input and output, the DSR-4410 is ready to connect to the rest of your head-end equipment.

Features:

- MPEG-2 Main Level@Main Profile
- DigiCipher® II MegaPipe+ Support
- Variable tuning from 4 MHz to 36 MHz
- Dolby® Digital and MPEG layer II audio processing
- VBI reinsertion SID/AMOL-II, NABTS and closed caption
- Stackable 1RU chassis design
- DigiCipher II conditional access control
- Quick disconnect screw terminals for easy Installation
- Bypass video and audio inputs
- DTMF cue tones for local ad insertion
- ASI input and/or output for easy connection to digital cable headend products
- 10/100 BaseT Ethernet port for datacasting and/or SNMP monitoring and control
- Dedicated video diagnostics output

TECHNICAL SPECIFICATIONS:

L-Band Input

Input Frequency: 950 - 2150 MHz
Input Impedance: 75
Input Connectors: Two (2) F-type
LNB Power Out F-Connector:
16V DC min/450 mA
Port-to-Port Isolation: 40 db (minimum)

DigiCipher II Processing

Modulation Modes: OQPSK and QPSK
Symbol Rates: 3.25, 4.88, 7.32,
9.76, 11.71, 14.63, 19.51, 29.27
Mps
FEC Rates: 5/11 (19.51 & 29.27 Mps
only), 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8
Eb/No: 4.0 db @ 19.5 Mps
(FEC=3/4)

Composite Video

Frequency Response (NTSC): ± 0.75
dB, 1 kHz - 4.2 MHz
Frequency Response (PAL): ± 0.75
dB, 1 kHz - 5.5 MHz
Signal/Noise Ratio: 57 dB (min)
Differential Gain: 4% (max)
Difference Phase: 4 deg. (max)
Output Impedance: 75
Output Level: 1.0 V p-p

Audio

Output: 2 stereo pair or 4 mono
Output Level: ± 18.0 dBm, ± 1.0
dB into 600 balanced load
adjustable (0 to -15 dB)
Frequency Response: ± 1.0 dB, 20
Hz to 20 kHz
Total Harmonic Distortion: 0.25% or
better at 1 kHz

Signal/Noise Ratio: 86.2 dB or better
at 1 kHz
Isolation, L/R: 80 dB at 1 kHz
Impedance: 50
Connector: Quick disconnect screw terminal

Ethernet

Connector: RJ-45
Format: 10/100BaseT

ASI Output/Input

Format: Asynchronous serial interface
Transmission: Data byte and packet
Standard: CENELEC EN 50083-9
Connector: BNC

Cue Tones

Signal Type: Differential output
Signal Level: 0 dBm, ± 3 dB (600)/tone
Connector: Quick disconnect screw terminal

Contact Closures

Number of Closures: 2
Type: Form C

Physical

Operating Temperature: 0° to 40°C
Humidity: 95%, relative maximum
Dimensions: 48 cm/18.90" (W) x 46
cm/18.11" (D) x 4.2 cm/1.65" (H)
Weight: 5.0 kg/11 lbs (approx.)
Power Input: 90-250 VAC, 47-63 H, 25 W

Other

Limited Warranty: One year
UL/TUV/CE: Listed/approved
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