



DSR-4410MD

Satellite Multiplex Decrypter



Commercial Satellite Multiplex Decrypter for Demodulation and Multi-Service Decryption of Satellite Signals

Highlights Include:

- DigiCipher® II conditional access control
- Concurrent decryption of up to 64 services, each service may include video, multiple audio channels and data
- Stackable 1RU chassis design
- Dual L-Band input ports
- Supports both C-band and Ku-band
- Advanced modulation support for 8PSK Turbo and DVB-S2
- ASI Input
- Dual ASI and Gig-E transport output with selectable rates
- 10/100 Base T Ethernet port for SNMP monitoring and control
- IP datacasting output
- Outputs NTSC video and analog audio for local monitoring
- Form-C relay for fault signaling
- Background software download capabilities

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

The Motorola DSR-4410MD is a powerful digital headend product, capable of simultaneous decryption of up to 64 services. With advanced modulation support, the DSR-4410MD can output a full transport multiplex with both MPEG-2 and/or MPEG-4 services at an information rate of up to 160 Mbps.

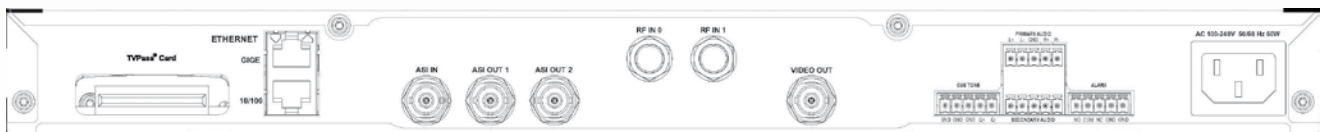
The Motorola DSR-4410MD comes equipped with industry standard interfaces such as dual ASI outputs that enable seamless connection to head-end equipment. The DSR-4410MD also accommodates the current trend for distributing MPEG-2 transport streams over Gigabit Ethernet interfaces throughout digital headends.

Packaged in a 1RU chassis, the DSR-4410MD offers local monitoring of a single service and the ability to step through the authorization and encryption state of each service. In the event of a transport stream fault, or loss of authorization for any of the provided services, the DSR-4410MD will trigger an alarm indication for the user.

SPECIFICATION SHEET

DSR-4410MD

TECHNICAL SPECIFICATIONS	Data
L-Band Input Input Signal Level: (-)65 dBm to (-)25 dBm Input Frequency: 950 - 2150 MHz Input Impedance: 75 Ω Input Connectors: Two (2) F-type LNB Power Out F-Connector: 16V DC min/450 mA	Ethernet 10/100 Base T Output: 1 Gig-E 10/100/1000 Base T Output: 1
Digital Processing Modulation Modes: OQPSK, QPSK, 8PSK turbocodes, DVB-S2 Symbol Rates: 3.25 to 29.27 Msps (QPSK) 1 to 30 Msps (8PSK turbocodes) 5 to 30 Msps (DVB-S2) QSPK FEC Rates: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8 (@3.25 to 29.27 Msps), 5/11 (@19.51 to 29.27 Msps) 8SPK (turbo) FEC Rates: 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 FEC Rates: 3/5, 2/3, 5/6, 8/9, 9/10 Eb/No: 4.0 db @ 19.5 Msps (FEC=3/4)	ASI Input/Output Output: Dual ASI Format: Asynchronous serial interface Transport Stream Data Rates: 54 Mbps, 81 Mbps, 160 Mbps Standard: CENELEC EN 50083-9
Video Frequency Response (NTSC): ±0.75 dB, p-p, 1kHz - 4.2 MHz Frequency Response (PAL): ±0.9 dB, p-p, 1kHz - 5.5 MHz Signal/Noise Ratio: 57 dB (min) Differential Gain: 4.0% p-p (max) Difference Phase: 4.0 deg. p-p (max) Output Impedance: 75 Ω Output Level: 1.0 V p-p ± 10%	Gig-E Output Output: 10/100/1000 Base T Ethernet Transport Stream Data Rates: 54 Mbps, 81 Mbps, 160 Mbps
Audio Output: 2 stereo pair or 2 mono Output Level: ±18.0 dBm, ±1.0 dB into 600 Ω balanced load, adjustable (0 to -15 dB) Frequency Response: ±1.3 dB, 20 Hz to 20 kHz Total Harmonic Distortion: 0.25% or better at 1kHz Signal/Noise Ratio: 85 dB or better at 1 kHz Isolation, L/R: 80 dB at 1 kHz Impedance: 600 Ω Connector: Quick disconnect screw terminal	Decryption Number of Services: up to 64 independently encrypted services Cue Tones Signal Type: Differential output Signal Level: -3 dBm, (600 Ω)/tone min Connector: Quick disconnect screw terminal Alarm Relay Form C: Quick disconnect screw terminal Physical Width: 18.9" (48cm) Depth: 18.11" (46cm) Height: 1.65" (4.2cm) Weight: 11 lb (5kg) approx Power Input: 90-250 VAC, 47-63Hz, 40 W max Operating Temperature: 0 to 40C ambient Humidity: 95%, relative maximum Other Limited Warranty: One year Compliance: UL listed/approved



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