

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

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.

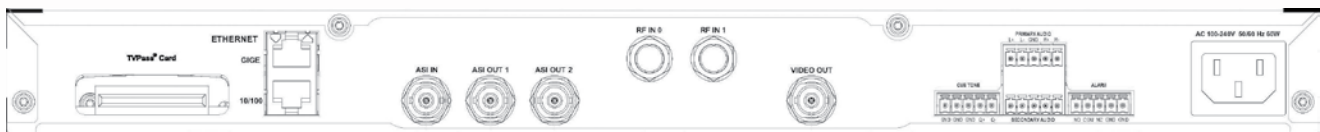
The Motorola DSR-4410MD comes equipped with industry standard interfaces such as dual ASI outputs that enable seamless connection to head-end equipment. The DSR-4410MD also accommodates the current trend for distributing MPEG-2 transport streams over Gigabit Ethernet interfaces throughout digital headends.

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



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