

DSR-4810

Digital Satellite Receiver



The Motorola DSR-4810 satellite receiver employs MPEG-2/DVB digital technology. Exceptional end-user reception and signal quality is achieved by using robust QPSK satellite demodulation, forward error correction and MPEG-2 decompression circuitry, all housed within a professional rack-mountable chassis. The Motorola DSR-4810 has video synchronization capability across multiple DSR-4810 units. It will accept a primary and secondary video input reference and synchronize the output audio and video to one reference. It will also provide a video output reference for other units to use as a synchronization reference.

The Motorola DSR-4810 processes standard definition transport streams, including, encrypted DigiCipher® II signals and unencrypted DVB signals. transport streams, via an ASI output, for external high definition decoding. With additional key features such as VBI re-insertion, 4:2:2 Profile@Main Level support, front panel controls and two stereo pairs audio output, the Motorola DSR-4810 is ideally suited to meet the high standards required for cable headend delivery and broadcast distribution.

Digital receiver capable of receiving standard or high definition signals.

HIGHLIGHTS INCLUDE:

- Gen lock and four L-Band inputs
- Serial digital interface (CCIR601) output output with embedded AES/EBU audio
- VBI re-insertion for SID/AMOL, Teletext, Neilsen and closed-caption
- DigiCipher® II and DVB modes of operation
- Supports 4:2:2 video



RECEIVER SPECIFICATIONS

L-Band Input

Input Signal Level: (-)60 dBm to (-)25 dBm
 Input Impedance: 75
 Input Return Loss: 8 dB minimum
 LNB Power: 12 or 20 VDC
 (programmable) @ 350mA
 Number of: 544 x 480
 Input Connector: 4

Video Reference Input

Standard: RS170A
 Single Level
 (40IRE - 100IRE): 1V p-p $\pm 20\%$
 Single Level DC: ± 3 V
 Sync Tip Level: 286 mV $\pm 20\%$
 Impedance: 75 / 1000 switchable
 Return Loss: 27 dB to 4.2 MHz
 Sampling Rates: BNC

ASI Output

Format: ASI
 Transmission: Data Burst
 Standard: CENELEC EN 50083-9

Digital Component Video Output

Standard: SMPTE 259M
 Input Impedance: 2 stereo AES/EBU digital audio
 VGI
 (DigiCipher® II mode): CC, SID/AMOL, NABT
 VBI (DVB mode) CC

Composite Video Output

Standard: NTSC
 Impedance: 75 Ω nominal
 Connector: BNC female
 VBI
 (DigiCipher® II mode): CC, SID/AMOL, NABTS
 VBI (D VB mode): CC

Video Reference Output

Standard: RS170A
 Sync Tip
 Signal Level: 286 mV p-p $\pm 10\%$
 Impedance: 75 nominal
 Connector: BNC

Analog Audio Output

Impedance: 60 $\pm 5\%$
 Connector: Quick disconnect
 barrier strip
 Output Channels: 2 stereo pairs
 Output Level: (+)18 dBm (peak) with a
 1 kHz tone with a
 0 dBFS input

Digital Audio Input

Format: AES/EB U
 Output Channels: 2 stereo pairs
 Connector: XLR, balanced 110

Asynchronous Data Output

Format: EIA232
 Data Rate: up to 19.2 kbps
 Connector: DB9, male

Additional Connectors

Contact Closures (2): Quick disconnect
 barrier strip
 Alarm Output: Quick disconnect
 barrier strip
 Cue Tone Output: Quick disconnect
 barrier strip

Ethernet Data Port

Format: 10BaseT
 Data Rate: Up to 38.4 kbps
 Connector: RJ45
 Communication: TCP/IP

Local Remote Control Port

Format: EIA232 or EIA485
 Data Rate: 9.6 - 38.4 kbps
 Connector: DB9

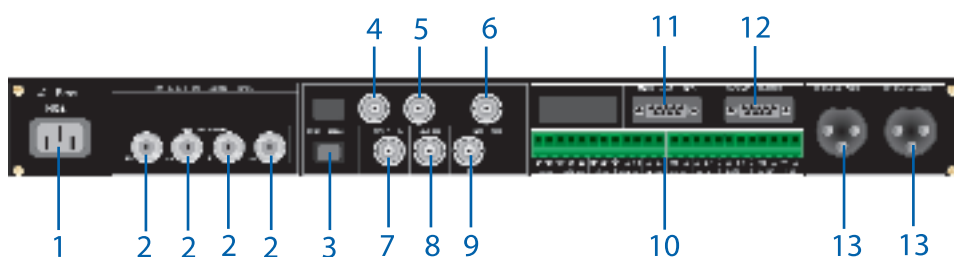
Physical Environment

Voltage Range: 86 - 140 VAC
 Frequency: 47 - 63 Hz
 Consumption: 70 watts maximum
 Operating
 Temperature: 0° to 40°C
 Humidity: 0% to 90%,
 non-condensing

Other

Limited Warranty: One year

INPUTS/OUTPUTS



- | | | |
|-----------------------------|---------------------------------------|--|
| 1..... AC Power | 6..... Black Burst | 10..... Quick Disconnect Barrier Strip |
| 2..... RF Input | 7..... ASI Output | 11..... RS 232 Async Data |
| 3..... Ethernet | 8..... SMPTE 259 Digital Video Output | 12..... Local Remote Control Port |
| 4..... Video Ref. Primary | 9..... Baseband Video Output | 13..... Digital Audio Output |
| 5..... Video Ref. Secondary | | |



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