

Model D9228 Multiple Decryption Receiver

Description

The PowerVu[®] Multiple Decryption Receiver receives, demodulates, and decrypts multiple encrypted MPEG-2/DVB digital programs delivered via satellite or DVB-ASI interface. If necessary, the received MPEG transport stream can be processed through PID dropping or PID



remapping to suit various applications. Full or partially modified transport streams can be made available to four independent outputs (two DVB-ASI and two configurable as DHEI or SWIF). The input stream is decoded locally and is output in analog format for local monitoring. A graphical on-screen display along with front panel control provides simple setup and diagnostics.

Features

- 2 L-Band inputs
- Variable symbol rates from 1 to 45 Msymbols/s
- PowerVu conditional access with DES or DVB descrambling
- DVB-ASI transport input
- Decrypt up to 16 video programs with audio services
- PID dropping / re-mapping
- · Four independent transport stream outputs; two DVB-ASI, and two SWIF or DHEI interfaces
- Ethernet interface via SNMP
- Two programmable alarm/warning relay contact closure outputs
- Easy control via on-screen-display or front panel control
- Analog Decoded Outputs for Monitoring: 4:2:0 video and MPEG-1 or Dolby[®] Digital (AC-3)

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Specifications

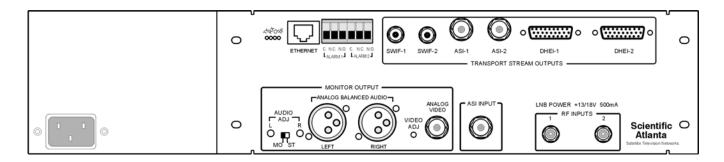
| Features | Description |
|-------------------------------------|--|
| System | MPEG-2/DVB Compatible Inner FEC: Variable (1/2, 2/3, 3/4, 5/6, 7/8) Outer FEC: Reed Solomon, T=8 MPEG-2 Transport |
| Tuner | Number of RF inputs: Two Connectors: F-type female, 75Ω Input Level: -30 dBm to -65 dBm per carrier Frequency Range: 950 MHz to 2150 MHz Symbol Rate: 1 to 45 Msymbols/s Transport Bit Rate: 49.7 Mb/s maximum L-input Input Separation: > 40 dB LNB Power: 13/18V @ 500 mA 22 kHz Band Switch: 22 kHz ±2 kHz |
| DVB-ASI Input | Connector: BNC, 75Ω Supported Packet Length: 188 bytes Transport Bit Rate: 52.3 Mb/s maximum |
| Ethernet Interface | Connector: RJ-45 Specification: Full-duplex 10-base T |
| Alarm Outputs | Number: Two Specification: Form C contact closure (available in North American version only) |
| SWIF Transport Stream Outputs | Number: Two Average Optical Output Power: -13.3 dBm to -20 dBm |
| DVB-ASI Transport Stream Outputs | Number: 2 Connector: BNC, 75Ω Data Format: 188 byte packets |
| DHEI Transport Stream Outputs | Number: Two Interface: HD-22, duplex DHEI physical interface Data Format: 188 byte packets |
| Analog Monitor Video Output | Number: One Connector: BNC, 75Ω Decompression: MPEG-1 or MPEG-2 4:2:0 Video Standard: 525/625, auto-switchable Level: 100 IRE ±5% (NTSC), 1.0 V p-p ±5% (PAL) Maximum Video Rate: 15 Mb/s Video Resolutions: 720 x 576/480, 704 x 576/480, 544 x 576/480, 528 x 576/480, 480 x 576/480, 352 x 576/480 Chroma/Luma Delay: ±75 ns Differential Gain: 5% maximum Differential Phase: 5° maximum Line Time Distortion: 3% maximum Field Time Distortion: 3% maximum Linearity: 5% maximum S/N: 55 dB |
| Analog Monitor Audio Output | Number: One stereo pair Connector: XLR Decompression: Dolby Digital (AC-3) or MPEG-1 Peak Output level: +18 dBu into high impedance (factory set for unity gain, adjustable ±6dB) Audio Sampling Rates: 32 kHz, 44.1 kHz, 48 kHz THD: 0.3% maximum @ 1 kHz |

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| Features | Description |
|----------------------------|---|
| | Dynamic Range: 75 dB (CCIR Arm Weighting) minimum Cross Talk: 60 dB minimum @ 1 kHz Frequency Response: ±2 dB maximum from 20 Hz to 20 kHz |
| Environmental/ Physical | Operating Temperature: 0°C to 50°C (32°F to 122°F) Storage Temperature: -40°C to 60°C (-40°F to 140°F) Relative Humidity: 5% to 95% non-condensing Physical Dimensions: 3.5 in. H x 19.0 in. W x 16 in. D (8.9 cm H x 48.3 cm W x 40.6 cm D) Weight: 22 lbs (10 kg) approx. |
| Power | Voltage Range: 100V to 240V AC Line Frequency: 47 to 63 Hz |

D9228 Rear Panel Configuration



Ordering Information

| Part Number | Description |
|-------------|---|
| 803-426 | 2 ASI and 2 SWIF/DHEI Outputs, North American, DES/DVB (MDR Pool ISE) |
| 803-427 | 2 ASI & 2 SWIF/DHEI Outputs, DES/DVB, CE Model |
| 4005520 | 2 ASI & 2 SWIF/DHEI Outputs, DES/DVB, North American |



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