

CDSR Series

Commercial Digital Satellite Receiver



○ Features & Benefits

- Rack Mountable - 1 EIA (1.75") Rack Space
- DVB Compliant Decompression with FEC and Virtual Channel Mapping Support
- Front Panel Mounted Push Button Switches for Easy Channel Selection
- UL Listed with Three Year Product Warranty
- Professional Commercial Satellite Receiver for Bell ExpressVu Compatibility

The CDSR-6181 Series is a professional quality, high performance, commercial digital satellite receiver. The unit is designed to receive the MPEG-2, DVB compliant Bell ExpressVu programs. The CDSR-6181 is ideal for cable systems requiring a single small DBS antenna while maintaining the highest signal quality and reliability. Proprietary on-board software shields the receiver from consumer DBS transmitted instructions. Each receiver has a unique address stored on the communication card. The receiver automatically handles virtual channel mapping using a programmer transmitted satellite transponder lookup table. Channels are user-selectable via push button switches on the front panel. The CDSR-6181 delivers the best possible video and audio quality by using a combination of forward error correction (FEC) techniques. Monaural and stereo audio outputs are provided.

○ Specifications

RF

Frequency Range 950 - 1450 MHz
Impedance: 75 Ohm
Input Level: -70 to -30 dBm
IF Band Width: 32 (at -3 dB) MHz

LNB Supply RHCP Polarity Switching:
+13.3 (±7%) V

LHCP Polarity Switching: +18.3 (±7%) V
Current: 300 (max) mA
Protection: lightning, short circuit
Safety: UL listed 1409

Video

Frequency Range Composite:
± 0.6 (100 KHz to 4.2 MHz) dB
Level: 1.0 (± 3 % into 75 Ohm) Vp-p
Format: QPSK, MPEG-2 DVB
C/L Delay Inequality: ± 40 ns
Differential Gain: < 5 %p-p
Differential Phase: < 5 ° p-p
Signal-to-Noise Ratio: > 50 dB (weighted)
Luma Delay: < 40 ns
Line Time Distortion: < 1.5 % TILT
Field Time Distortion: < 1.5 % TILT

Mechanical

Dimensions (WxHxD):
19.00 x 1.75 x 14.5 in
482.6 x 44.4 x 368.3 mm

Weight: 5.00 lbs, 2.27 kg

Operating Temperature:
32 to 122 °F
(0 to 50) °C

System Specifications

TV System: NTSC
Input Symbol Rate: 20 Msps
Inner FEC:
Convolutional Rate 1/2, 3/4, 2/3, 5/6, 7/8
Outer FEC:
Reed Solomon coding (204,188) t=8
Demultiplexing: ISO/IEC 13818-1
Video Decoding: ISO/IEC 13818-2 (MP-ML)
Audio Decoding: MPEG 1, layer 1 and 2

Audio

Frequency Range: 20 Hz - 20 kHz (±1 dB)
Output Level
(Left and Right): 0 (into 600 Ohm) dBm
Mono: 1 (into 10K Ohm) Vp-p
Stereo L-R Separation: 50 dB
Signal-to-Noise Ratio: 80 dB
Harmonic Distortion: < 0.1 (at 1 KHz) % THD
Dynamic Range: 90 dB
Left to Right Balance: < 0.8 dB

Connectors (Rear Panel)

RF Input/LNB Power: "F" type, female
Video Composite: "F" type, female
Left And Right Audio Output: Terminal Strip
Mono Audio Output: Terminal Strip

General

Power Requirements
Voltage: 110 (± 22%) VAC
Frequency: 54 to 66 Hz
Power: 23 W

Controls (Front Panel)

Channel Selector: Push Buttons

Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

Model	Stock No.	Description
CDSR-6181	6181A	Commercial Digital Satellite Receiver Bell ExpressVu DBS Programming

Available through **Multicom, Inc.** 1076 Florida Central Parkway, Longwood, FL 32750

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