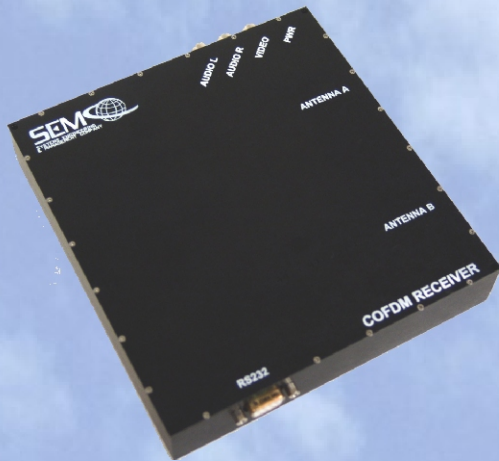




Digital Video/Audio Receiver

Series VRD 80



Features

- L, S, or C Bands
- Agile Frequency
- Audio & Data Sub-Carriers
- -100 dBm Sensitivity
- 1.25 to 8 MHz Selectable Bandwidths



Description

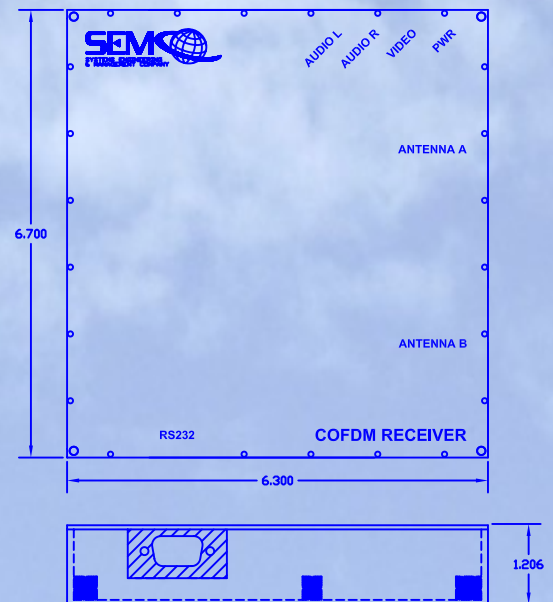
The VRD 80 series of broadcast quality, digital (COFDM) video/ audio receivers are designed for the reception of NTSC (or PAL) video signals in the frequency bands covering 1755-1850, 2200-2400, 2400-2500, or 4400-5000 MHz. The VRD 80 can be configured with both audio and telemetry sub-carriers.

COFDM is a particularly useful mod/demodulation scheme in those environments where analog FM reception has serious shortcomings - non-line-of-sight (NLOS) and multipath. The sensitivity of the receiver (-100 dBm) implies excellent range performance, when compared to other receivers.

The receiver's video bandwidth can be varied from 1.25 MHz up to a broadcast quality level of 8 MHz. MPEG2 decoding mode is standard; MPEG4 is optional. Standard encryption is ABS, but AES is available up to 256 bit, also as an option.

Rugged construction, minimum size and light weight make these transmitters ideally suited for applications where operation in harsh conditions is required.

The Series VRD 80 video transmitter comes with SEMCO's 1 year warranty on parts and labor.



Systems Engineering &
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1430 Vantage Court
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For Further Information Call
(800) 995-0636, Ext.1126
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Technology & Innovation For A Safer World



Specifications

Series VRD 80 *Digital* Video/Audio Receiver

RF

Frequency Ranges	1755-1850, 2200-2400, 2400-2500 4400-5000 MHz
Frequency Selection	Multi-channel
Sensitivity	-100 dBm (nominal)

VIDEO SECTION

Type	COFDM
Line Standard	NTSC (PAL optional)
Bandwidths	8, 7, 6, 2.5 MHz (1.25 MHz optional)
Coding	MPEG2 (MPEG4 optional)

AUDIO SECTION

Output	Line Level
Sample Rate	32 KHz, 16 KHz, 8 KHz

ENVIRONMENTAL

Temperature	-20 to +50 degrees C
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POWER

Input Voltage	9 - 16 VDC (reverse polarity protection)
Input Current	850 m A (maximum)

CONNECTORS

Video Output	RCA female
Audio/Telemetry Output(s)	RCA female
RF Input	SMA female
RS232 Output	9-pin "D" female
Power	Lemo

MECHANICAL

Size	6.7 x 6.3 x 1.21 inches
Weight	14 ounces

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