



TELION 1350-1390 MHZ
SOFTWARE DEFINED RADIO

TELION 'VERNO CM'



APPLICATIONS

- **Military Defense**
- **Unmanned vehicle activities**
- **Homeland Security**
- **Remote monitoring and control**
- **RF Networks Bridging**
- **Telemetry**
- **Test bed platform**
- **Networking Back Haul**
- **Remote sensing/Data logging**
- **Robotics**
- **Video Surveillance**

OPTIONS



Telion 'Verno CM'
Ethernet



Telion 'Verno CM'
Board level



Telion 'Verno CM'
Serial

Frequency band of operation	1350-1390 MHz; incl. frequency hopping for noise/interference immunity
FIPS 140-2 AES Encryption	Secure data with FIPS approved algorithms and role-based authentication <i>FIPS 140-2 Validated</i>
RF channel throughput	Flexible high speed data rate (up to 1.3 Mbps)
Multiple Data Types	Data, Video, Voice (High Definition and Standard)
Operating Range (LOS conditions)	Voice only, Slow data: up to 8,000 km MidRate data: up to 30 km HighDef Video, HighRate data: up to 5km
Network Topologies	Variety of Network types; TDMA, Point-to-Point, Point-to-Multi-Point
Reconfigurable/ Interoperable	On-board firmware bank provides the user with a variety of firmware options
Scalable Comm. Platform	Easily upgradable; can change the waveform on-the-fly
Adaptive Power Management	Power Efficient; 3W average power @ supporting HighDef Video
Robust	Spread spectrum (frequency hopping or direct sequence)
Sensitivity	-123 dBm @ BER 10 ⁻⁶ , 8 kbps -110 dBm @ BER 10 ⁻⁶ , 130 kbps -96 dBm @ BER 10 ⁻⁶ , 6.5 Mbps
Input voltage range	4.5...32 VDC.
Operating temperatures	-40 ... + 85 deg C.
Output power	Programmable @ 1 dB steps, up to 1 Watt; dynamically scales based on QoS
Dimensions	3.18" x 2.89" x 0.47" (board level) 4.72" x 4.06" x 1.20" (enclosure)
Weight	Less than 4 ounces (board level) Less than 13 ounces (enclosure)
RF connector	MCX

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