



A VIDEO DATA VOICE Co.

Home of the next-generation telecommunication & computing equipment products

RF Data Radio Modem

MD1000 RF DATA RADIO MODEM

Features

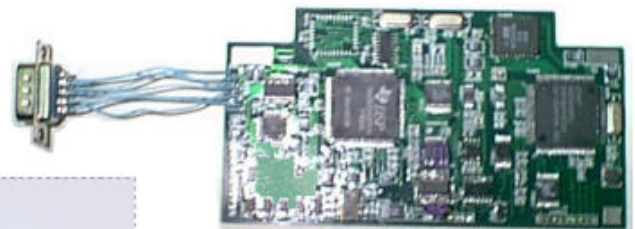
- Bandwidth 4800 to 19.2kbps
- MDMA Modulation
- Increase Channel Bit Rate/Hz
- Full Data Packet Framing
- Impulse and NRZ Signal Modes
- Enhanced Performance in Noisy Conditions
- Error Detection and Error Correction
- Low Power 3.3V/5.0V Operation
- Interface with most LMR VHF, UHF, 800, 900 Mhz, 2.4Ghz and 5.6Ghz
- RS232 and Digital I/O Interface
- GPS receiver build in as option.
- One piece integrated data radio design

Applications

- Voice/Data communications
- Wireless Data Terminals
- Two Way Paging Systems
- Digital Radio Systems
- Wide Area Wireless Data
- Broadcasts
- Point to Point Wireless Data Links



The MD1000 RF Data Radio Modem is a digital data radio modem using advanced DSP device containing all of the base-band signal processing and Medium Access Control (MAC) protocol functions required for a high performance MDMA Wireless Packet Data Modem. It interfaces with the host computer such as a PDA or a Mobile Data Computer and the RF radio modulation/demodulation circuits to deliver reliable two-way transfer of the application data over a wireless link. The MD1000 assembles application data received from the host computer, adds forward error correction (FEC) and error detection (CRC) information, and interleaves the results for burst-error protection. After automatically adding symbol and frame sync code-words, the data packet is converted into filtered signals for MDMA modulating the radio transmitter. In receive mode, the MD1000 performs the reverse function using the analog signals from the receiver discriminator. After error correction and removal of the packet overhead, the recovered application data is supplied to the host computer. CRC detected residual uncorrected data errors will be flagged. The MD1000 uses data block sizes and FEC/CRC suitable for applications where high speed transfer of data over narrow-band wireless links is required.



Digital RF Data Modem Board

