



Model CS4400 Frequency Converter System

The CS4400 Frequency Converter System is a digitally controlled frequency agile converter for troposcatter and line-of-sight microwave radio. The system incorporates two transmit channels, four receive channels and redundant rubidium reference oscillators supporting quad diversity communications, and is field tunable over the 4.4 to 5.0 GHz band. All filters are motor driven and tuned under the control of the redundant system controllers in the CS4400. All functions including frequency changes can be controlled from the front panel or remotely via SNMP or M&C port. Redundant architecture and modular construction are utilized throughout for maximum availability. When combined with Comtech's CS67200 20 Mb/s modem and CSM8800 E1/IP multiplexer, the CS4400 is an integral part of a complete microwave terminal used for beyond-line-of-sight or line-of-sight communication systems.



Standard Features

- Two independent transmit channels and four receive channels
- Fully automated tuning
- Hot-swappable modular construction
- Easy to read vacuum fluorescent display
- Up-down left-right keys for easy menu driven frequency and function control
- Embedded processors monitor critical system functions
- All functions fully controllable from the front panel or via SNMP or M&C port
- Windows based graphical user interface
- 4.4 to 5.0 GHz frequency range in 100 kHz steps
- Independent gain control of transmit and receive channels
- Built in self test and monitoring functions
- Redundant power distribution
- Redundant self contained 10 MHz rubidium timing and frequency reference
- Redundant microprocessor control systems
- Redundant internal clock distribution

