

M4200

HF TACTICAL MODEM

with USB 2.0
USB Powered
Ruggedized Enclosure



Specifications

CLOVER 2000

Data Format	8-tones, 8-bit transparent
Bandwidth	2000 Hz, (500-2500 @ -50 dB)
Symbol Rate	62.5 per second
Error Correction Coding	Reed Solomon: 60, 75, or 90%
ARQ Modulation	BPSM, QPSM, 8PSM, 8P2A, 16P4A
ARQ Protocol	Auto Adaptive, Full-Duplex
ARQ FrameTime	5.44 seconds
Adaptive ARQ Control	Measure S/N and Phase on all data; set TX modulation
Raw Data Rate	3000 bits/sec (before error correction)
ARQ Data Rate	224 to 2000 bits/sec (error corrected)
Broadcast Data Rate	112 to 1336 bits/sec

AFSK WAVEFORMS

FSK Tones	500-3000 Hz programmable
TTY Codes	Baudot and ASCII
TTY Rates	45, 50, 57, 75, 100, and 110 Baud
TOR Codes	CCIR-476, CCIR-625
TOR Modes	ARQ, FEC, and SEL-FEC
TOR Rate	100 Baud
P-Mode	Auto-ARQ, FEC
P-Mode Rates	100 / 200 Baud

HARDWARE

Cabinet	1.25x4.75x7.25" (3.2x12.1x18.4cm) Aluminum Extrusion, 1.1 lbs (.5 kg)
USB	USB Type B, USB 2.0 Full Speed
Power	USB Bus powered
DE-25S Radio Connection	Serial RS-232 Control Port TX Audio, RX Audio, PTT

Key Features

- CLOVER 2000 Technology
- Voice bandwidth
- Adaptive ARQ
- 3000 bits/sec
- Selective Block Repeat
- Virtual PC COM Port
- Radio control port (AF, PTT, Ctrl)
- Field Upgradable Firmware
- OEM Customization Available
- Software and Hardware Support

Software

- CLOVER Mail for HF email
- DSPWin File Transfer & Chat
- Command Set Documentation



HAL Communications Corp.

1201 W Kenyon Road
P.O. Box 365
Urbana IL 61803-0365
USA

www.halcomm.com
halcomm@halcomm.com
Tel: (217) 367-7373
Fax: (217) 367-1701