

M4200

HF Tactical Modem with USB 2.0

- USB powered
- Ruggedized Enclosure



SPECIFICATIONS

CLOVER 2500

Data Format	8-tones, 8-bit transparent
ARQ Modulation	BPSM, QPSM, 8PSM, 8P2A, 16P4A
ARQ Protocol	Auto Adaptive, Full-Duplex
Bandwidth	2500 Hz, (250-2750 @ -50 dB)
Data Rate	3750 bits/sec
ARQ Data Rate	275 to 2500 bits/sec
Broadcast Data Rate	135 to 1667 bits/sec

CLOVER 2000

Bandwidth	2000 Hz, (500-2500 @ -50 dB)
Data Rate	3000 bits/sec
ARQ Data Rate	220 to 2000 bits/sec
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
Radio Connection	Serial RS-232 Control Port, TX Audio, RX Audio, PTT

KEY FEATURES

CLOVER Technology

Voice bandwidth

Adaptive ARQ

3500 bits/sec

Selective Block Repeat

USB 2.0 PC Port

Radio control port (AF, PTT, Ctrl)

Field Upgradable Firmware

OEM Customization Available

Software and Hardware Support

SOFTWARE OPTIONS

CLOVER Mail for HF email

DSPWin File Transfer & Chat

Command Set Documentation

HAL Communications Corp.

3111 Village Office Pl
Champaign, IL 61822
USA

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



M4200

HF Tactical Modem with USB 2.0

- USB powered
- Ruggedized Enclosure



SPECIFICATIONS

CLOVER 2500

Data Format	8-tones, 8-bit transparent
ARQ Modulation	BPSM, QPSM, 8PSM, 8P2A, 16P4A
ARQ Protocol	Auto Adaptive, Full-Duplex
Bandwidth	2500 Hz, (250-2750 @ -50 dB)
Data Rate	3750 bits/sec
ARQ Data Rate	275 to 2500 bits/sec
Broadcast Data Rate	135 to 1667 bits/sec

CLOVER 2000

Bandwidth	2000 Hz, (500-2500 @ -50 dB)
Data Rate	3000 bits/sec
ARQ Data Rate	220 to 2000 bits/sec
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
Radio Connection	Serial RS-232 Control Port, TX Audio, RX Audio, PTT

KEY FEATURES

CLOVER Technology

Voice bandwidth

Adaptive ARQ

3500 bits/sec

Selective Block Repeat

USB 2.0 PC Port

Radio control port (AF, PTT, Ctrl)

Field Upgradable Firmware

OEM Customization Available

Software and Hardware Support

SOFTWARE OPTIONS

CLOVER Mail for HF email

DSPWin File Transfer & Chat

Command Set Documentation

HAL Communications Corp.

3111 Village Office Pl
Champaign, IL 61822
USA

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

