

DSP4200/2K

HF Radio DSP Modem

with USB 2.0

USB Connection to the PC

USB Powered

Small Package Size

Microsoft Certified USB Drivers



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	1.25x4.20x6.15" (3.2x10.7x15.6cm) Aluminum Extrusion, .8 lbs (.37kg)
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