

Product Description

The SIGNALpro is a data analysis tool used to decode paging data for system diagnostics and performance evaluation. The product may be operated as a stand alone unit to gather and store data or in conjunction with a PC to provide real time on- screen presentation of paging data.

Reception of paging data can be accomplished using a built-in receiver or by connection to an external receiver such as a communications or service monitor. Data is then decoded on the DSP card and passed to the HOST card for transmission to the PC.

Sales are limited to professional users consisting of paging service providers, law enforcement, and paging equipment manufacturers.

The SIGNALpro hardware consists of five circuit boards, backplane board, power supply, and aluminum enclosure or case.

The circuit board and power supply functions are as follows:

Power Supply - Power-One MAP55-1024 AC to 24 VDC power supply.

Backplane - Provides interconnection between all circuit modules.

DC/DC Converter Board - Provides +12, -12, an +5VDC power sources for all circuit modules. Accepts input from the power supply module or front panel DC Input .

Oscillator/GPS Board - Provides an ovenized 10MHz. reference oscillator signal and houses the GPS receiver module. Clock signals of 5 and 10 MHz. are distributed from this board to the HOST/CPU, DSP, and Receiver boards.

HOST/CPU Board - Provides communications between the SIGNALpro and PC, data storage for the DSP and Receiver modules.

16.667 MHz. Clock for the 68302 processor. Confined to the HOST card.

4XOUT - 96kHz. Signal used on the HOST and distributed to the DSP card as BUS4X.

4_8 MHz. - 4.8 MHz. signal used on the HOST and distributed to the DSP card as BUS4_8.

4XDIV - 24kHz. Signal confined to the HOST.

DSP Card - Performs decoding of paging data by detecting paging format and rate and applying an appropriate decoding algorithm.

40 MHz. Clock for the TMS320C26 DSP. Confined to the DSP card.

48kHz. Signal confined to DSP card.

Receiver –

21.4 MHz. 1st IF.

455kHz. 2nd IF.

Low side Injection 1st L.O. for all frequencies in the 450 and 900 MHz. Range.

High side injection for VHF range.

20.945 MHz. 2nd L.O.