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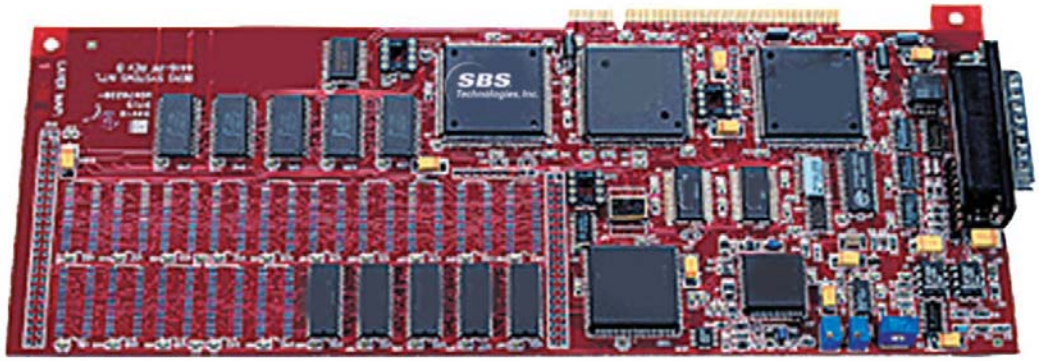
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Find the *Philips 4416-PF* at our website: *Click HERE*

PHILLIPS

4416 - PF



4416 – PF
PCM Simulator

Features

- Supports PCM Output up to 20 Mbps
- All PCM Codes Including DM, Miller^2, & RNRZ
- Conventional Encoding
- Variable Word Length Output (1-32 bits)
- Data Buffers for up to 1 Megaparameters
- Synchronous Word Modifications
- Allows Complex Commutation Schemes

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Summary

The Model 4416-PF is a fully programmable PCM Simulator/Data Generator for the VME bus. It Offers the capability of generating telemetry formats limited only by the on-board memory capacity (up to 1 M words) at data rates up to 20 Mbps.

The Model 4416-PF permits the creation of realistic PCM streams including formats with variable length words and MSB/LSB-first alignment (on a word-by word basis). Complex PCM encoding schemes can be defined with multiple sub and super commutated formats. The Model 4416-VF can output conventionally encoded data (rate ½, 1/3, K=7) and/or BPSK modulate the simulated data stream.

PCM data sequences with up to one million 32-bit words can be stored in the module's on-board format memory. The Model 4416-PF includes an internal clock input to synchronize its output with other ground station elements for the correlated simulation.

Setup parameters for each function of the Model 4416-PF are programmed via the VME bus. Readback (status) is available over the same bus in a pollable status word.

Specifications

Performance:

Output Levels:	Timing Outputs: TTL Compatible Baseband Outputs: 1 volt into 75 ohmns. BPSK Output:500mv (approx.)
Output Data Rate:	20Mbps (10 Mbps for Rate ½ covolutional encoding 6-2/3 Mbps for rate 1/3) NRZ-type codes 15 Mbps (BIØ, RZ, and Miller codes) 1KHz-1 MHz BPSK (1 KHz-50KHz coherent)
PCM Codes:	NRZ-L/M/S, inverted NRZ-L, BIØ-L/M/S, inverted BIØ-L , DM-M/S, M², M²-S, RZ-Inverted RZ Scrambling:RNRZ-11/15, Reversed RNRZ-11/15, CCITT V.35, Intelsat V.35 Convolutional Codes: Rate ½, Rate 1/3
Word Length:	Variable (VWL), programmable 1 to 32 bits on a word by word basis
Major Frame Length:	1 to 262, 144 words standard (Memory Upgrades available-see Options
Bit Order:	MSB-first or LSB-first
Frame Sync Pattern:	Practically unlimited
Word Rate:	>1MW
Programming:	VMEbus C.1 compatible. 128K Bytes Address Space Register Space: A24D16E Memory Space: A24D08EO/D16E/D32
Status Memory:	Underflow error status and free-running major frame counter can be

Mechanical:

Form Factor:	VMEbus-compatible 6U x 160 Eurocard
Connectors:	Male DB25 front panel signal outputs
Manufacturing:	Hybrid of standard components & Surface Mount Technology (SMT)

Environmental:

Operating or:	Temperature 0° to 45°C
Non-Operating:	Humidity 0 to 90% (non-condensing)
Non-Operating:	(in proper packaging) Temperature -25° to +70°C Humidity Must prevent contact with moisture & contaminant
Special Handling:	Standard ESD handling methods are recommended

Options:

Option-M: Up to 524,288 Words
Option-MM: Up to 1,048,576 Words

Ordering Information

Part Number: 4416-PF

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