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Find the *Abaco Systems / SBS / BSI 4416-V* at our website: *Click HERE*

Product Details: 4416-VF

The Model 4416-VF 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 1M words) at data rates up to 20 Mbps.



Product Description

The Model 4416-VF 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 1M words) at data rates up to 20 Mbps.

The Model 4416-VF 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 convolutionally encoded data (rate 1/2, 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-VF includes an internal clock input to synchronize its output with other ground station elements for time correlated simulation.

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

The Model 4416-VF is the perfect choice for your demanding PCM simulation needs.

	4416-PF	4416-VF
Form Factor	3/4 PCI	6U-VME
Min Data Rate (bps)	64	64
Max Data Rate (Mbps)	20	20
Word Length (Bits)	1-32	1-32
Major Frame Length	1 Mega Word	1 Mega Word
Minor Frame Length (Words)	N/A	N/A
Max Word Rate	2 Megaword/Sec	2 Megaword/Sec
Special Features	CONV ENCODER V.35 SCRAMBLER BPSK CARRIER OUTPUT	CONV ENCODER V.35 SCRAMBLER BPSK CARRIER OUTPUT

Product Specifications: 4416-VF

Form Factor: VME 6U

Accessory List: cables

Host OS: VxWorks

Host Bus: VME 6U

Carrier Type: Not Applicable

Power Consumption: 3.0 @ +5, 0.10 @ +12, 0.10 @ -12

Supply Voltages: +5, ±12 V

Operating Temperature: 0 to 50 °C

Number of Channels: 3

Maximum Data Rate: 20

Data Rate Units: M bits/sec

Specifications Text:

- Supports PCM Output up to 20 Mbps
- All PCM Codes Including DM, Miller2, & RNRZ
- Convolutional Encoding
- Variable Word Length Output (1 -32 bits)
- Data Buffers for up to 1 Megaparameters
- Synchronous or Asynchronous Word Modification
- Allows Complex Commutation Schemes

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