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Find the *Abaco Systems / SBS 4427-V* at our website: ***Click HERE***

Product Details: 4427-V



Product Description

The Model 4427-V is a forward error correction module for the VMEbus. All functions of the Model 4427-V comply with those specified by the Consultative Committee for Space Data Systems (CCSDS) in the Space Data System Standards of Telemetry Channel Coding. The integrated design provides a total hardware solution to the CCSDS Encoding and Decoding requirements defined in the CCSDS 101.0-B-3 Blue Book.

The Model 4427-V provides independent encoding and decoding operations.Standard encoding functions include Convolutional Encoding, Reed-Solomon Encoding, Symbol Interleaving, Attached Sync Marker (ASM) Insertion and Bit-Stream Randomization. Standard decoding functions include Viterbi Decoding, Reed-Solomon Decoding, Symbol Deinterleaving, Frame Synchronization and Bit-Stream Derandomization.

All setup parameters for the Model 4427-V are programmable via the VMEbus. Readback (status) from the module is available over the same bus.

Product Specifications: 4427-V

Form Factor: VME 6U
Accessory List: cables
Host OS: VxWorks
Host Bus: VME 6U
Carrier Type: Not Applicable
Power Consumption: 1.45 @ +5, 0.0 @ +12, 0.01 @ -12
Supply Voltages: +5, ±12 V
Operating Temperature: 0 to 50 °C
Number of Channels: 1
Maximum Data Rate: 25
Data Rate Units: M bits/sec
Specifications Text:

- Complies with CCSDS 101.0-B-3 Blue Book
- Reed-Solomon Encoding/Decoding (25 Mbps)
- Code-Block Randomization/Derandomization
- Symbol Interleaving/Deinterleaving (depths1-8)
- ASM Insertion for Code-Block Synchronization
- Quality Accounting and Bit-Error Rate Readback
- Convolutional Encoder/Viterbi Decoder (Option-V)

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