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Find the *L-3 / Aydin AVME-335* at our website: ***Click HERE***

Bit Synchronizers

L-3 COMMUNICATIONS TELEMETRY-EAST's VME Bit Synchronizers are ideally suited for reconstructing a noisy input PCM data stream and providing a clean PCM signal with a coherent clock. A full line of VME compatible Bit Synchronizers offer performance which exceeds many box level Bit Synchronizers.

L-3 COMMUNICATIONS TELEMETRY-EAST offers two models of VME compatible Bit Synchronizers are offered. The Model AVME 335 10 Mbps Bit Sync and the AVME 3335 20 Mbps Bit Sync. Each of these Bit Syncs accept the standard NRZ-L/M/S, BiØ-L/M/S, DBi-M/S, DM-M/S, MDM-M/s IRIG PCM codes. Bit Error Rate Performance is within 1 dB of theory with synchronization maintenance below 0 dB Eb/No. Acquisition time of these units is less than 20 transitions in light noise.

The VME Bit Syncs include a randomizer/derandomizer for generation of a randomized serial data output and the derandomizing of the data on playback from an external tape recorder.

AVME 335

Tunable PCM Bit Synchronizer (10 Mbps) with Viterbi Decoder option



APPLICATIONS

- Satellite Data Receiving Systems
- Satellite TT & C
- Testing-Satellite and Airborne Data-Streams
- Aircraft Flight Testing

FEATURES

- Tunable from 10 bps to 10 Mbps
- Performance within 1 dB of theory
- Loop bandwidth adjustable from 0.01% to 1.6%
- Selectable PCM & Dedicated NRZ-L outputs at TTL and RS422 levels with a 0° clock and 180° clock
- PN Randomizer/Derandomizer per IRIG STD 106-96.
- Optional Viterbi Decoder
- Front panel and P2 back plane inputs and outputs.

AVME 3335

Tunable PCM Bit Synchronizer (20 Mbps)



APPLICATIONS

- Satellite Data Receiving Systems
- Satellite TT & C
- Space Data
- Receiving Housekeeping Data-Downlinks from Satellites
- Testing-Satellite and Airborne Data-Streams
- Aircraft Flight Testing

FEATURES

- Tunable from 10 bps to 20 Mbps
- Performance within 1 dB of theory
- Loop bandwidth adjustable from 0.01% to 1.6%
- Selectable PCM & Dedicated NRZ-L outputs
- 0°, 90° and programmable phase clocks available at TTL and RS 422 levels
- PN Randomizer/Derandomizer per IRIG STD 106-96
- 3-bit soft decision outputs
- 1 Vpp to 6 Vpp Bipolar output
- 3 bit soft decision outputs

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