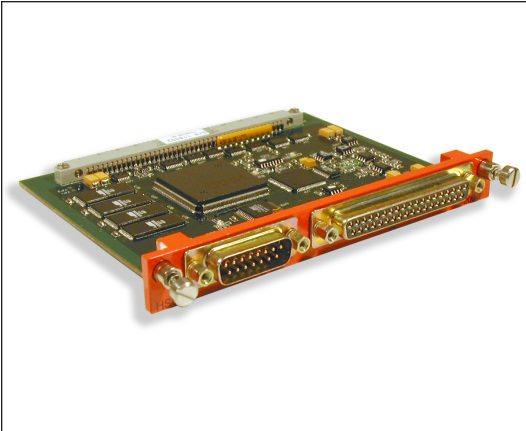


High Speed Controller Card



Applications

- Distributed Data Acquisition Systems
- Safety of Flight Telemetry
- On-board Recording
- Real-time Data Display and Analysis

Features

- Data Formatter for the CDAU-2020
- Houses the System Format EEPROM
- Controls PCM Data Rate Parameters
 - Bit rates up to 20 Mbps or 1.666 Megasamples per second (whichever is less)
 - Bits-Per-Word settings of 10, 12, 14 or 16
- PCM Format Capabilities
 - Supports up to eight (8) independent PCM formats - externally strappable
 - Each format can be up to 512 words per minor frame and up to 256 sub-frames deep
 - Uses "True Subcommutation" sublists to conserve memory space
- Provides AIC-200X (composite) data outputs
 - One (1) Primary PCM (RS-422) at up to 20 Mbps with programmable PCM coding
 - Three (3) NRZ-L PCM (RS-422)
 - One (1) NRZ- PCM (TTL)
 - One (1) Filtered PCM w/automatic filter cutoff based on system bit rate.
- Supports System Simultaneous Sampling, Time Code and Calibration Enable/Disable
- Programmable using TTCWare™ software application

Description

The HSC-400 provides the data formatter function for the CDAU-2020 Airborne Instrumentation Controller. This card must be installed in slot #1 in order for the CDAU-2020 to function properly. The card houses the system EEPROM device that regulates the PCM sampling formats and all associated parameters. In addition the card generates the support signals needed to support Simultaneous Sampling, IRIG Time Code, and signal conditioning calibration. The card also provides a number of buffered composite data output streams representing the entire data set acquired by the unit and associated remote units.

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HSC-400 Datasheet

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