

## High-Speed System Controller



### Description

The AIC-20XX is a high-speed Airborne Instrumentation Controller that operates at rates of up to 20 Mbps. The unit operates as data acquisition formatter/controller communicating and collecting data from low-speed distributed data acquisition units. A complete family of plug-in cards is available including CAIS (Common Airborne Instrumentation System) bus, E-bus, serial PCM input, and others. The AIC-20XX is also available with a high-speed multiplexer AIM-20XX within a single chassis called AIC/M-20XX.

### Features

- High-speed system controller with up to 20 Mbps data rate
- Optional plug-in cards
  - Quad CAIS Bus Interface (RCI-204)
  - Quad E-Bus Interface (REI-204)
  - Quad Programmable Secondary PCM Output (PSO-204)
  - Parallel and Octal DAC Output (PAO-200)
  - 1553 Remote Terminal (BRT-553H)
  - 1553 Bus Controller (BCT-553H)
  - Quad PCM Input (PCI-204)
  - Engineering Unit Processor (EUP-200)
  - DCRSi Recorder Interface (REC-200)
- Supports external GPS interface
- Accepts IRIG B modulated or DC time
- Generate multiple IRIG B modulated and DC time
- Supports selected data retrieval for transmission and/or cockpit display
- Provides fully programmable operation
  - Single point system programming
  - Standard serial RS-232/422 interface
  - Complete format programmability
  - Operates at 10, 12, 14, or 16 bits per word
  - System-wide calibration and simultaneous sampling
  - Up to 8 independent PCM formats
- Supports PCM quick-look via RS-232/422 port
- Compatible with TTC CDAU/MCDAU/MWDAU units
- Includes Microsoft Windows application software
- Ruggedized airborne enclosure

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### AIC-20XX & Cards Datasheet

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 Specifications subject to change without notice.



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