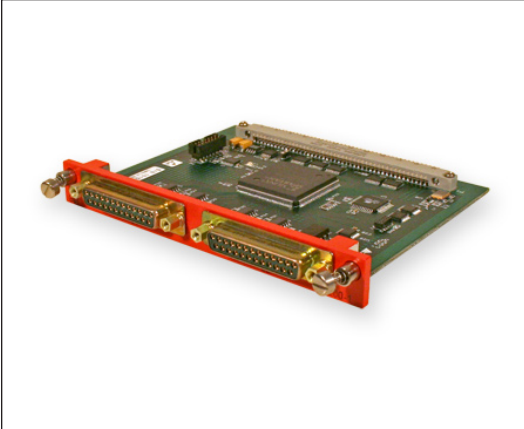


## Built-in Test Card



### Applications

- Data acquisition and monitoring
- System health monitoring
- Built-in test

### Features

- Select up to 64 PCM parameters for test
- PCM parameters can physically be located anywhere within the distributed system
- 8 flag outputs for visually viewing errors are driven with RS-422 differential drivers
- 4 of the 8 flags (flags 1-4) also driven by Optocouplers. These Optocouplers can be programmed for either Hi-z or Lo-z during active flag conditions
- Any parameter error condition can be viewed at any or all of the 8 flag outputs
- Flag duration is programmable
- Test results of all 64 parameters can be inserted into the PCM
- Monitors CDC switches
- Used in a master AIC-200x
- Microsoft Windows application software included

### Description

The BIT-200 provides limit comparison and absolute value testing of up to 64 PCM parameters. 8192 max limit comparisons can be made. Limit comparisons must be in order as they appear in the PCM format. Testing includes two's complement data. The failure of any parameter can be monitored at any or all of the 8 programmable flag outputs. Flags 1-4 are also driven out using Opto-isolators. Each parameter result is uniquely identified in a 64-bit error register. This error register is translated into error status words that can be inserted into the PCM. At 16 BPW, the results of all 64 parameters can be read in 4 reads (4x16=64 parameters). Extended reads are provided when operating at less than 16 BPW. CDC switches are monitored from the Cockpit Display Controller (CDC) via the CDC information bus. CDC switch data can be read into the PCM.

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### BIT-200 Datasheet

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