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Find the *Excalibur Systems EXC-1553P104/MCH-2* at our website: ***Click HERE***

EXC-1553P104/MCH

AVIONICS COMMUNICATION BOARD

The EXC-1553P104/MCH board is available with up to three channels, and all versions may be ordered in commercial or extended temperature grades. Each dual redundant channel may be programmed to operate as a Bus Controller, Remote Terminal, Bus Monitor or Remote Terminal/ Concurrent Bus Monitor. The board, when used in conjunction with a PC/104 based host, provides a compact yet sophisticated solution.



General Features:

- Up to three MIL-STD-1553 independent dual-redundant channels
- Ruggedized, extended temperature range available
- Supports MIL-STD-1553A/B
- 32K x 16 dual-port RAM per channel
- Polling or Interrupt Driven
- Built in Test (BIT) capability
- Single supply 5V operation
- C software library included

Features Per Channel

- Operates as BC, RT, BM, or RT/Concurrent-BM
- Multiple protocol capability
- MIL-STD-1553A/B
- Autonomous operation in all modes
- 32 control registers
- Real time operation
- Direct or Transformer coupling mode

Bus Controller Mode

- Programmable Automatic Retry
- Major and minor frames
- Programmable Intermessage Gap
- Advanced message control features

Remote Terminal Mode

- Single RT simulation
- Subaddress double buffering
- Circular buffer mode
- Message illegalization
- 16-bit Time Tag
- Programmable broadcast mode

Bus Monitor Mode

- 16-bit Time Tag
- Filtering per RT
- Interrupt history list
- Programmable monitor block count

Physical Characteristics

- Mechanical format: 96mm x 90mm
- Weight (/MCH-2): 140g

Operating Environment

- Temperature: 0° – 70°C standard temp.
- -40° – 85° extended
- temperature (optional)
- Humidity: 5% – 90% noncondensing
- MTBF (/MCH-2): 440,880 hours at 25°C, G_F, S217F

Host Interface

- PC compliance: PC/104, 8 bit data bus
- Memory space occupied: 32K x 8
- I/O space occupied: 4 bytes
- Interrupts: IRQ 2 – 15
- Power (/MCH-2): +5V ±5% @ 800mA

Software Support

- C Drivers with source code
- Merlin MCH software for Windows
- Additional software may be available on our website

Ordering Information

- **EXC-1553P104/MCH-*x*** 1553 board for PC/104

Note: "***x***" specifies the number of MIL-STD-1553 channels required (up to three)

- Additional Options:
  - **-E** Extended temperature
  - **-001** With conformal coating

CERTIFIED QMS SI ISO 9001: 2000

CERTIFIED AMS AS 9100

March 2009, Rev A-1

These specifications are subject to change without notification

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EXCALIBUR SYSTEMS

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