MIL-STD-1553B Dual Redundant Controller
Bus Controller / Remote Terminal / Bus Monitor

FEATURE SUMMARY

- Compliant MIL-STD-1553B
- Simultaneous Remote Terminal/Monitor mode
- Dual redundant 1553B BC/RT/BM modes
- Dual tri-axial front panel connectors
- Multiple message processing in BC and RT modes
- Time tagging and message logging in RT mode
- Internally-generated history list
- Commercial, Industrial or Military temperature
- High speed dual port memory
- Internal wraparound self test
- Application software and drivers available
- VMEbus Rev. C.1
- 3U VME form factor

OVERVIEW

The COM-1553B board gives the MIL-1553B designer an intelligent and versatile solution to multiplexed serial data bus design requirements. In applications that require the throughput and reliability of 1553B communications, the COM-1553B is a cost-effective system component with unsurpassed performance. The COM-1553B board minimizes host overhead with its automatic execution of message transfers, interrupt handling, and generation of status information. In the Bus Controller mode, the COM-1553B bus implements a linked list message scheme to provide the system with message chaining capability. In the Remote Terminal mode, time tagging and message history functions are available. The COM-1553B also allows multiple message processing, programmable automatic message delay, automatic polling and retry.
**COM-1553B-3**

**VME MODULE**

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### SPECIFICATIONS

**Function**
- 1553 Bus Controller, Remote Terminal, Bus Monitor

**Controller**
- UT1553B BCRTM

**Comm. Buffer**
- 128Kbytes, Dual ported Sram

**Ports**
- One dual-redundant 1553B, with two triaxial front panel connectors

**VME Interface**
- Compatible VMEbus Rev. C.1, SADO24/32, SD16
- Interrupts: IRQ1-IRQ7
- Power: +5 Vdc, 350 mA typ.

### ENVIRONMENTAL

**Operating temp.**
- 0°C to +65°C (Commercial)
- -40°C to +85°C (Industrial)
- MIL-STD-810D (Military)

**Storage temp.**
- -55°C to +85°C (Commercial)
- -55°C to +100°C (Industrial)
- MIL-STD-810D (Military)

**Humidity**
- 0% to 90% non-condensing

**Altitude**
- Operation sea level to 10,000ft
- Non-operating sea level to 50,000ft

**Vibration**
- 2G / 55Hz (Industrial)
- MIL-STD-810D (Military)

**Shock**
- 10G / 11mS (Industrial)
- MIL-STD-810D (Military)

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### ORDERING INFORMATION

**P/N:** COM-1553B-X-Y

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td>C/O Commercial</td>
<td>0°C to +70°C</td>
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<tr>
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<td>I/Industrial</td>
<td>-40°C to +85°C</td>
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