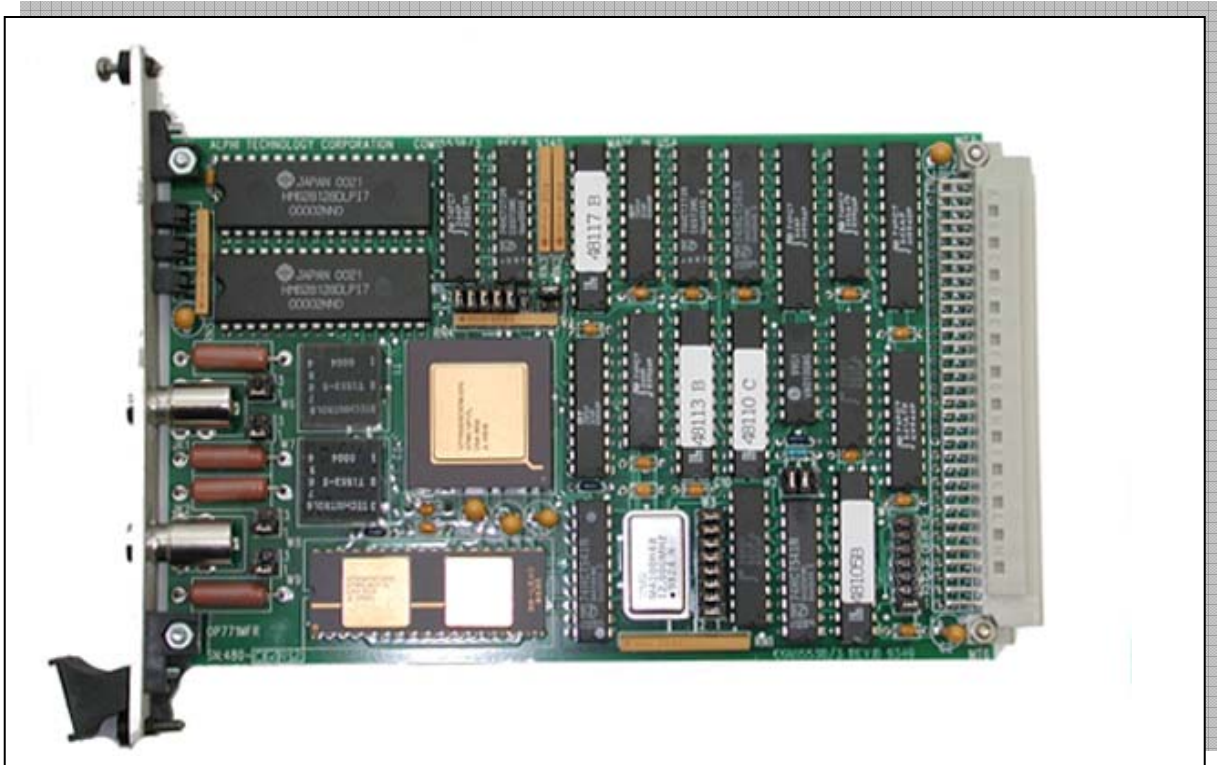


## MIL-STD-1553B Dual Redundant Controller Bus Controller / Remote Terminal / Bus Monitor



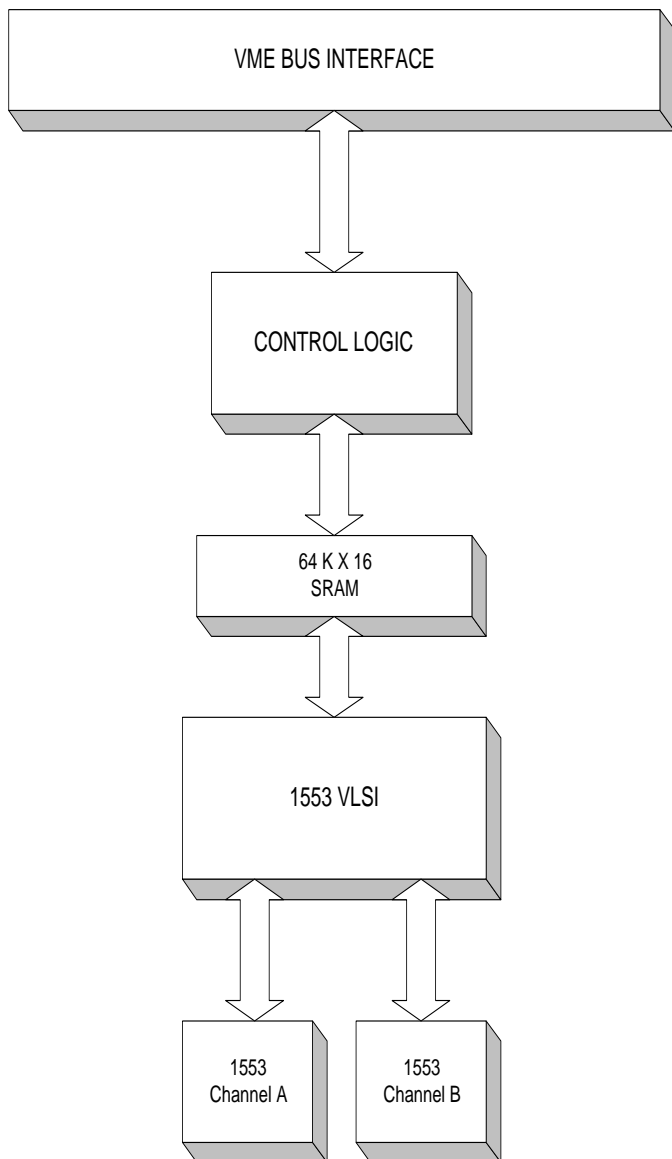
### FEATURE SUMMARY

- 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.

### 1553 BLOCK DIAGRAM



### 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 tri-axial 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)

### ORDERING INFORMATION

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

X =	3	3U VME
Y =	C	ommercial 0°C to +70°C
Y =	I	ndustrial -40°C to +85°C
Y =	M	ilitary MIL-STD-810D