

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



FEATURE SUMMARY

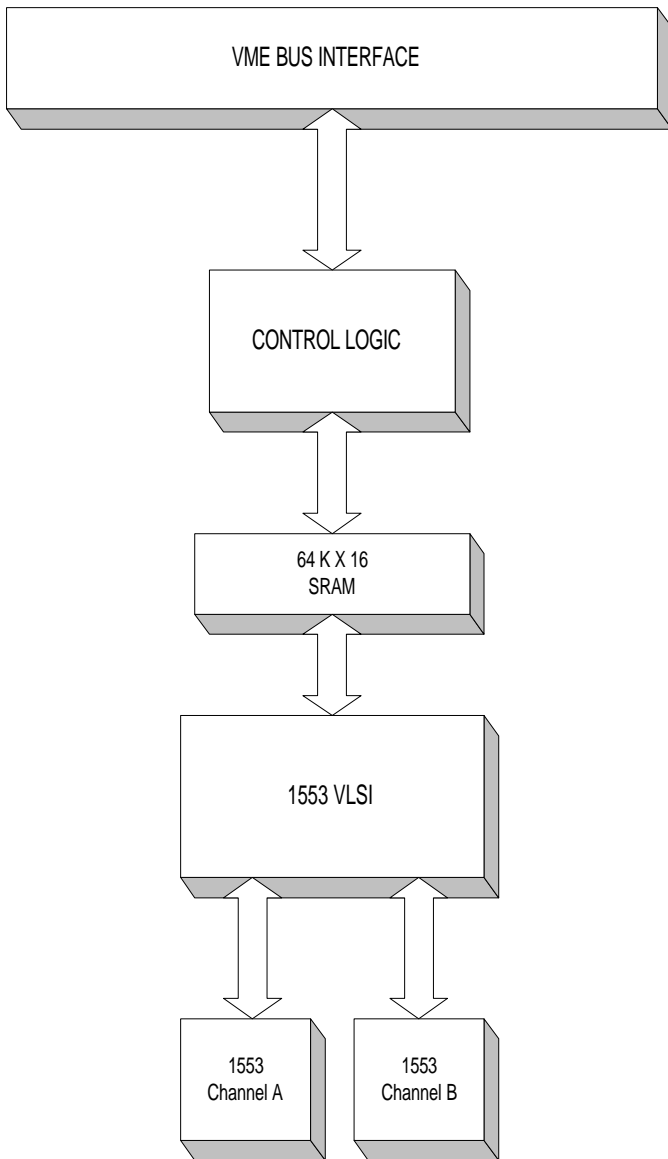
- Compliant MIL-STD-1553B
- Simultaneous Remote Terminal/Monitor mode
- Dual redundant 1553B BC/RT/BM modes
- Dual tri-axial front panel connectors
- Multiple message processing in BC and RT modes
- Time tagging and message logging in RT mode
- Internally-generated history list
- Commercial, Industrial 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.

© Copyright 1995 by ALPHI TECHNOLOGY, 1995
6202 South Maple Ave., Suite 120 Tempe, Arizona 85283
PHONE (480) 838-2428 FAX (480) 838-4477 www.alphitech.com

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 =	<u>C</u> ommercial	0°C to +70°C
Y =	<u>I</u> ndustrial	-40°C to +85°C
Y =	<u>M</u> ilitary	MIL-STD-810D

© Copyright ALPHI TECHNOLOGY, 1995

6202 South Maple Ave., Suite 480 Tempe, Arizona 85283

PHONE (480) 838-2428 FAX (480) 838-4477 email: info@alphitech.com