Summary

- MIL-STD-1553B
- optional IRIG-B
- 1 Lane PCiexpress
- Options:
  0 to +70 degrees
  -40 to +85 degrees
  Conformal coating
- 128 Kbyte SRAM
  Per Channel
- BC / RT / M modes
- Separate logic for the
  PCIe interface
- (2) Dual Redundant
  Channel 1 (A+B)
  Channel 2 (A+B)
- Selectable Internal /
  external CLK
- 78 ohm X-formers
- Long / short stub
- 5.0v or 3.3v VIO
- Low power
- LED Status
- Available Software
  - ‘C’ libs
  - Windows
  - Linux
  - VxWorks

Features

- 1 or 2 UTMC SUMMIT
- UT69151DX-GPC
- BC / RT / BM
- On-chip Transceivers
- On-board Transformers
- Long stub / Short stub

Memory

- 1 or 2 banks 128Kbytes Sram

Programmable via

- PCIexpress Bus

PCIe interface

- Local Bus Clock rates at 66MHz
- Compliant PCIe Specification,
  r1.0a
- PCIMG 1.x
- Direct slave data transfers
- 2 DMA Channels

I/O

- 1553 bus levels
- TTL (5v) clock
- Front panel or rear I/O

Operating: Environmental

- Operating temperature
  Commercial: 0 to +70 °C
  Optional: -40 °C to +80 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 20’000 ft

Mechanical: Environmental

- Size: Low Profile PCIe
  2.5” x 6.5”
- Power: 1.5 watt
- Front panel I/O
- Vibration: 0.5G RMS
  20-2000 Hz rand
- Shock: 20 G, 11 ms, ½ sine
- Weight: tbd
- MTBF: >250000 hours

www.alphitech.com    email us: engineering@alphitech.com
PCle-1553-x

PCIexpress Module

Functional Block Diagram

Ordering Information

Part Number: PCIe-1553-1
1) MIL-1553, BC/RT/M, UTMC SUMMIT, No IRIG-B
C - 0ºC to +70 ºC Temperature rating
I - -40ºC to +85 ºC Temperature rating

Part Number: PCIe-1553-2
2) MIL-1553, BC/RT/M, UTMC SUMMIT, No IRIG-B

Optional Accessories

Part Number: EngKit-1553-micro
2 T's, 2 Terminators, 1 16 inch cables

Part Number: CBL-1553-micro
Standard-Standard 16 inch 1553 cable

Alphi Technology Corporation
1898 E. Southern Ave.
Tempe, Arizona 85282, USA
Tel: (480) 838 2428
Fax: (480) 838 4477

For ordering information: sales@alphitech.com Please visit our web site at www.alphitech.com

Products mentioned are trademarks or registered trademarks of their respective holders. Alphi Technology believes this information is accurate as of its publication date and is not responsible for any inadvertent errors. The information contained herein is subject to change without notice. Copyright © 2005 Alphi Technology Corp. document number: 823-0-001-4100 rev.q