

TELEDYNE MICROELECTRONICS

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TM 1553.T.15

WITH TRANSFORMERS
±15.0 V DRIVERS

1553B Self-Contained BC/RT Module with Line Transformers

Validated ASD/ENASD MIL-STD-1553B Notice 2

FEATURES

- ☐ Complete self-contained 1553B data bus MUX
- ☐ ±15.0 V dual line transceivers with transformers on board
- ☐ Embedded Microcontroller – 6.0 MHz, with 8K x 24 firmware and 256 x 16 scratch pad
- ☐ Message memory mapping 16 bit time tag counter 1–64 μ sec resolution
- ☐ Programmable DMA to a variety of memory configurations
- ☐ Field programmable EEPROM 32K x 24 host CPU and bus protocols; 1750, others
- ☐ Comprehensive self-test
- ☐ Radiation Tolerance > 100K rads
- ☐ Full MIL-STD-883, Class "B" compliance

DESCRIPTION

Turn-key autonomous MIL-STD-1553B Data Bus Controller (BC) and Remote Terminal (RT) module with transceivers and line transformers to be used for drop-in applications.

Surface Mount (SMT) microminiature MCM module.

Provides industry standard dual line transceivers and line transformers.

Maximum field flexibility with re-programmable EEPROM for host CPU and unique 1553 protocol development.

Configurable DMA and programmable I/O interface to a variety of memory configurations.

Embedded Microcontroller 29117 ALU with carry; negative and overflow function; 256 x 16 scratch pad RAM with 8K x 24 ROM and 6 MHz clock.

Microcode sequencer 2910 function; addressing up to 8192 words; 9 word stacks for subroutines; 12 bit loop counter; conditional branching.

Microcode memory allocations: Interrupt & Initialize 6%; RT Mode 14%; BC Mode 10%; Self Test Mode 9%; Off State 4%; future growth for unique applications 57%.

Supports hosts: 8086, 1750 H-BUS, 1750 T-BUS and others.

