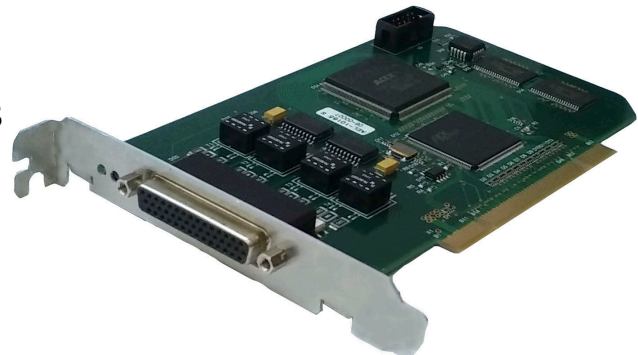


MT1713

PCI MIL-STD-1553

- Two Dual Redundant MIL-STD-1553A&B
- Programmable mode of operation
- Direct or transformer coupled interface



The MT1713 module is designed for providing exchange over the trunk serial interface MIL-STD-1553B through two dual redundant or four independent channels in three modes of operation:

– in the channel controller mode, the MT1713 module makes it possible to transmit messages and control commands over the communication link. After a single preparation of data by the CPU, the MT1713 module provides the exchange of messages with network users by hardware, thus allowing the CPU to perform other tasks. The number of messages addressed arbitrarily to users is up to 32;

– in the TD (terminal device) mode, the MT1713 module makes it possible to receive messages and execute control commands. The TD address is programmed (up to 32 addresses);

– in the monitor mode, the MT1713 module allows any information transmitted over the communication link to be received and stored in the random access memory.

For the receiving and transmitting information in any mode of operation, the module stores the time of its reception and transmission fixed by the built-in timer of the device. The timer has a programmable duration and counting period, as well as a means for shaping the CPU interrupts.

**Embedded
Solutions**

SKYTOP ELECTRONICS Ltd

Technical Data

PCI Interface ● PCI local Bus specification Rev. 3.0 compliant, 32 Bit address/data/33MHz

I/O ● Two Dual Redundant or four independence MIL-STD-1553A&B
● Programmable mode of operation

Memory ● RAM
● Controller mode: 16 KB
● Terminal mode: 8 KB
● Monitor mode: 4,5 KB

Miscellaneous ● Universal PCI 32bit connector
● Front Panel Connector: D-Sub 44-pin

Electrical Specifications ● Supply voltage/power consumption:
● +5V (-3%/+5%), 2000mA max. (500mA on channel)
● +3.3V (-3%/+5%), 150 mA max.
● TRANSMITTER Output Voltage
● 35 ohm load, Direct Coupled: 7V min, 8V max
● 35 ohm load , Transformer coupled: 20V min, 27V max
● Differential resistance
● Input: 20 Kohm min.
● Output: 10 Kohm min.
● Differential capacitance
● Input: 5 pF max.
● Output: 15 pF max.

Mechanical Specifications ● PCI Short Add-in card
● Weight: 120g

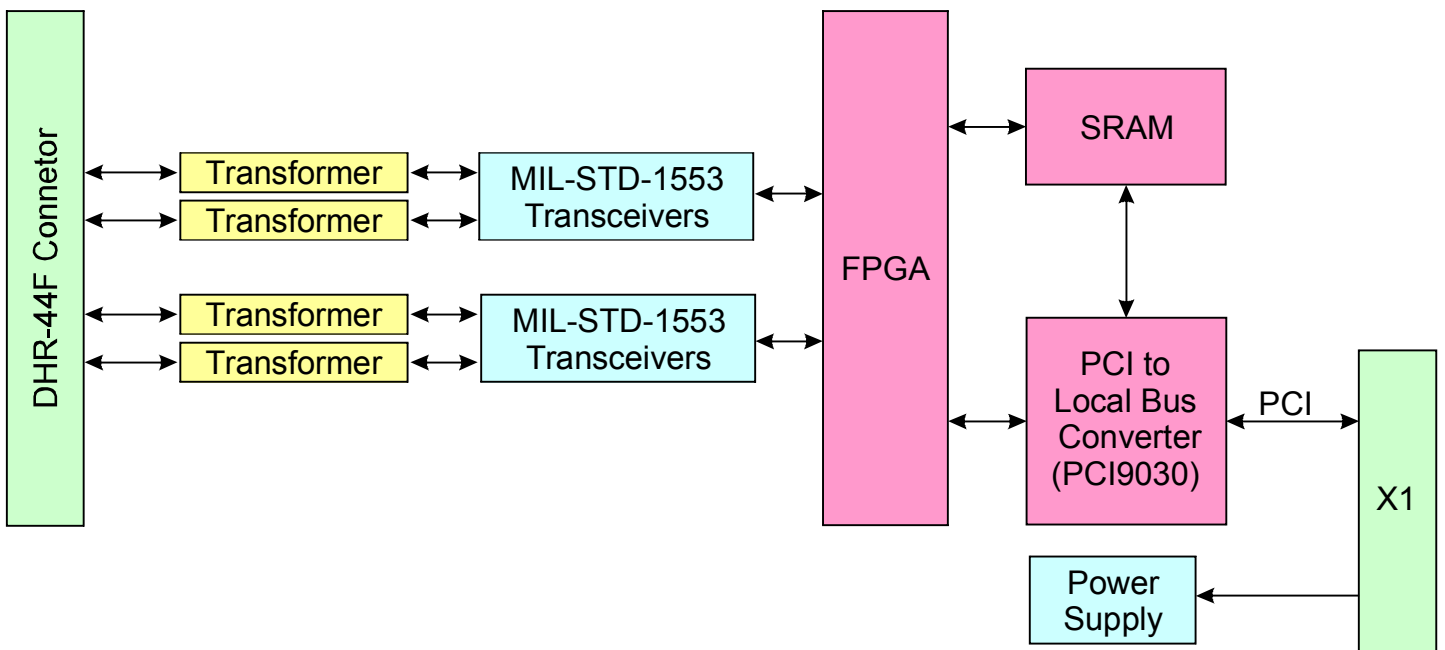
Environmental Specifications ● Temperature range (operation): -40..+85°C
● Temperature range (storage): -40..+85°C
● Relative humidity (operation): max. 95% non-condensing
● Relative humidity (storage): max. 95% non-condensing
● Altitude: -300m to + 3,000m
● Shock: 15g/11ms
● Bump: 10g/16ms
● Vibration (sinusoidal): 2g/10..200Hz
● Conformal coating on request

MTBF 300 000 h @ 40°C (derived from MIL-HDBK-217F)

Software Support ● Windows® (Windows® XP, Windows® 7), Linux

Block Diagram

4 x MIL-STD-1553



Contact Information

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