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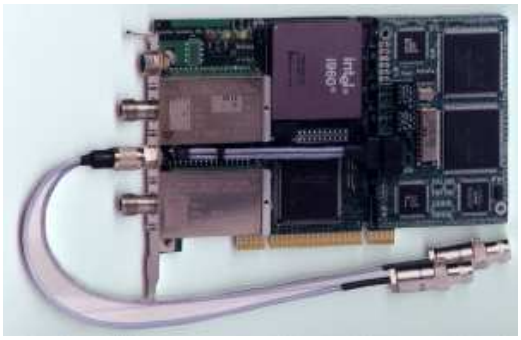
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EXC-3910PCI

The EXC-3910PCI is an advanced STANAG 3838/3910 test and simulation card for the PCI Bus. The board provides a comprehensive solution for developing and testing STANAG 3838/3910 systems. The EXC-3910PCI provides full low speed and high speed functionality including transmission over fiber optic lines in a single 175mm long card with no external assemblies. In low speed, the board can operate simultaneously as a bus controller, multiple (up to 32) Remote Terminals, and a Triggerable Bus Monitor. High speed functionality includes BC/RT mode (up to 32 RTs) with error injection and dynamic time-tags and monitoring with very sophisticated filtering capability. the board is available either with dual redundant fiber optical transceivers or with an electrical transceiver

Specifications

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General Specifications

- Compatible with STANAG 3838/3910
- 96K x 8 Dual Port RAM for Low Speed Operation
- 2 MByte for High Speed BC/RT
- 2 MByte for High Speed Monitoring
- Board Setup modiviable in Real Time
- Variable Aplitude Transceivers
- Direct or Transformer Bus Coupling
- Programmable Time Tag (RT & MON)
- Error Injection (BC & RT)
- Programmable Interrupts

Low Speed Bus Controller

- Programmable Intermessage Delay
- Programmable RT Response Time Out
- Programmable Frame Time
- Loop and Single-Shot Modes

Low Speed Bus Monitor

- Programmable Interrupts
- Three Operational Modes:
  - Fixed Block
  - Linked List
  - Lookup Table
- Three Storage Modes:
  - Store All
  - Store Only
  - Store After
- Programmable Triggers & Masks

Low Speed Remote Terminal

- Up to 32 RTs
- Selectable Broadcast Mode
- Programmable Status Word
- Programmable RT Response Time

Physical Characteristics

- Dimensions: 175mm x 107mm
- Weight(/OP): 310 Grams

High Speed BC/RT

- Error Injection/Detection
- Programmable Dynamic Tags
- Programmable Time Tag
- Mode and MID Illegalization

High Speed Monitor

- Four Linked Filters: AND/OR /Cascaded AND
- Filter on Command/Action Word/Data Value/Time
- Trigger Placement: Start/End/Middle
- Efficient Linked List Monitoring
- 2 Megabytes of Storage

Software Support

- C drivers with source code for Windows 9x/NT
- Merlin Menu Driven Software

Host Interface

- PC Compliance: Slave; 16 Bit
- Memory Space Occupied: 4 Mbytes + 128 Kbytes + 128 Bytes
- Interrupts: INTA#
- Power: +5V ±5% @ 3.5A (50% Bus Duty Cycle) +12V ±5% @ 0.9A

Operating Conditions

- Temperature: 0 - 70°C
- Humidity: 5% - 90% Non-condensing
- MTBF (/OP): 54,000 hours at 25°C, G_f

Ordering Information

- EXC-3910PCI-OP STANAG 3838/3910 interface with Optical Transceiver
- EXC-3910PCI-EL STANAG 3838/3910 Interface with Electrical Transceiver

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