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P13 - PC-MIP 48-bit TTL I/O Interface

The P13 TTL I/O PC-MIP is used for fast and trouble-free transmission of binary signals.

It is organized in six 8-bit groups, where each group can be programmed as an input or output. Every group has line termination resistors, which can also be activated by software. A trigger line allows simultaneous acquisition of the inputs of several groups at a specific point of time. All port lines are ESD-protected, but not optically isolated.

Technical Data

Input/Output

- 48-bit TTL I/O
- 6 groups, alternatively input or output
- active terminators can be activated for each group
- output low current (V OL ≤ 0.55V): min. 64mA
- output high current (V OH 2.0V): min. -15mA
- input high current: max. 100µA
- input low current: max. -100µA
- input voltage: min. -0.5V, max. 6V

PCI Characteristics

- 32-bit PCI, complying with PCI Local Bus Specification, Rev. 2.1
- target

Peripheral Connections

- via front panel on a shielded 36-pin half-pitch D-Sub receptacle connector (only Type II models)
- via J3/carrier board (rear I/O)

Electrical Specifications

- supply voltage/power consumption:
    - +5V (4.85V..5.25V) @ tbd.
    - +3.3V (3.0V..3.6V) @ tbd.
- MTBF: tbd. @ 50°C

Mechanical Specifications

- dimensions: PC•MIP Type I/II conforming to PC•MIP specification
- weight: tbd.

Environmental Specifications

- temperature range (operation): 0..+60°C or -40..+85°C @ 10m3/h airflow
- 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/0.33ms, 6g/6ms

- vibration: 1g/5..2,000Hz

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

EMC

- tested according to IEC1000-4-2 (ESD) and IEC1000-4-4 (burst) with regard to CE conformity

Software Support

- MEN Driver Interface System concept (MDIS)

Block Diagram



Ordering Information

Standard Hardware

15P013-00	P13, PC-MIP Type I (no front I/O), 48-bit TTL I/O
15P013-02	P13, PC-MIP Type I (no front I/O), 48-bit TTL I/O, -40..+85°C
15P013-03	P13, PC-MIP Type II (front I/O), 48-bit TTL I/O
15P013-04	P13, PC-MIP Type II (front I/O), 48-bit TTL I/O, -40..+85°C

Standard Software

13P013-06	low-level driver sources (MDIS4), incl. P13 MDIS user manual download
13M000-06	MDIS4 for WindowsNT system package download
13M000-07	MDIS4 for VxWorks system package download
13M000-08	MDIS4 for OS-9 system package download
13M000-13	MDIS4 for Linux system package download

User Manuals

20P013-00	P13 user manual download

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