SMT Setzer Messtechnik

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INFORMATION of ADwin-Pro II

The *ADwin-Pro II* system is the successor of the *ADwin Pro family*. The new system has a much faster processor T11 and transfers data with the new Pro II bus 10 times faster. At the same time, the integrated Pro I-Bus ensures the use of existing modules.

- New **Processor Modul T11** worked with the TigerSharc© ADSP-TS101S from Analog Devices. With 300 MHz Clock Rate, 768 kB internal Memory and 256 MB RAM the processing power is growing considerably. Additionally, the processor has 40-bit internal calculation accuracy for float calculations. Additionally, the processor has 40-bit internal calculation accuracy for float calculations.

- The accelerated **Ethernet-interface** (des T11) enables data transfer from the Pro II-System to the PC with more than 10 MByte/s.

- The **Bus Bandwidth** up to 200 MByte/s increases the capacity of the internal data transfer between processor module and the new Pro II I / O modules considerably.
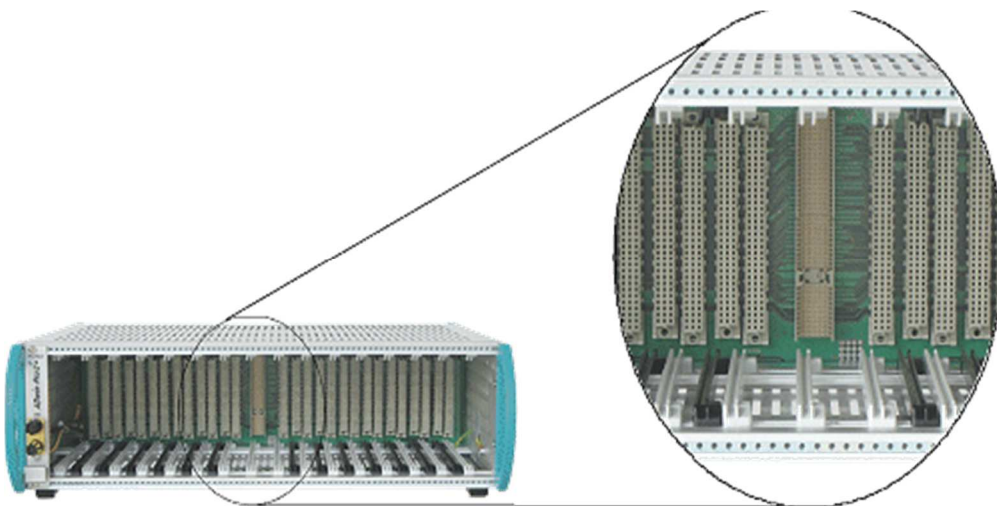
Black module rails for the previous Pro I modules, white rails for the new Pro II modules. The central slot in the middle part of the T11 and ensures the fastest most possible access to all modules.*Pro II* is compatible

At all performance improvement remains *ADwin-Pro II* compatible: The new Pro II bus and the previous Pro I work bus on the backplane side by side, all existing input and output modules can be used.

Also, the data exchange with the PC is fully compatible, all interfaces are working (to VB, Matlab, etc.) as usual. *ADbasic* source codes can be used: Only minor changes approved algorithms benefit from the higher processor speed.

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Realtime for complex applications

The high transfer speed of the new Pro II series allows data logger applications with high data rate. In addition, the fast processor T11 allows an intelligent pre-selection of relevant data, mathematical channel functions or digital filtering.
All new Pro II modules run automatically synchronized using the Pro II bus. This allows fully synchronized permanent measurements with several modules without the necessity for special software.

Complex calculations done by the **ADSP-processor** in the shortest possible time, in microseconds, it can handle only 1 up to fifty *ADbasic* lines. Extremely short reaction times are the so-loop or closed-loop processes on the T11 with cycle frequencies well above 1 MHz can be reliably performed.

Housing for all purposes

ADwin-Pro II is available in our usual variety of rugged enclosures for various applications: as a tabletop system for the laboratory, as field system or as a system for panel mounting.

The 5-16 slots and a variety of modules are the ideal and flexible basis for fast real-time applications.