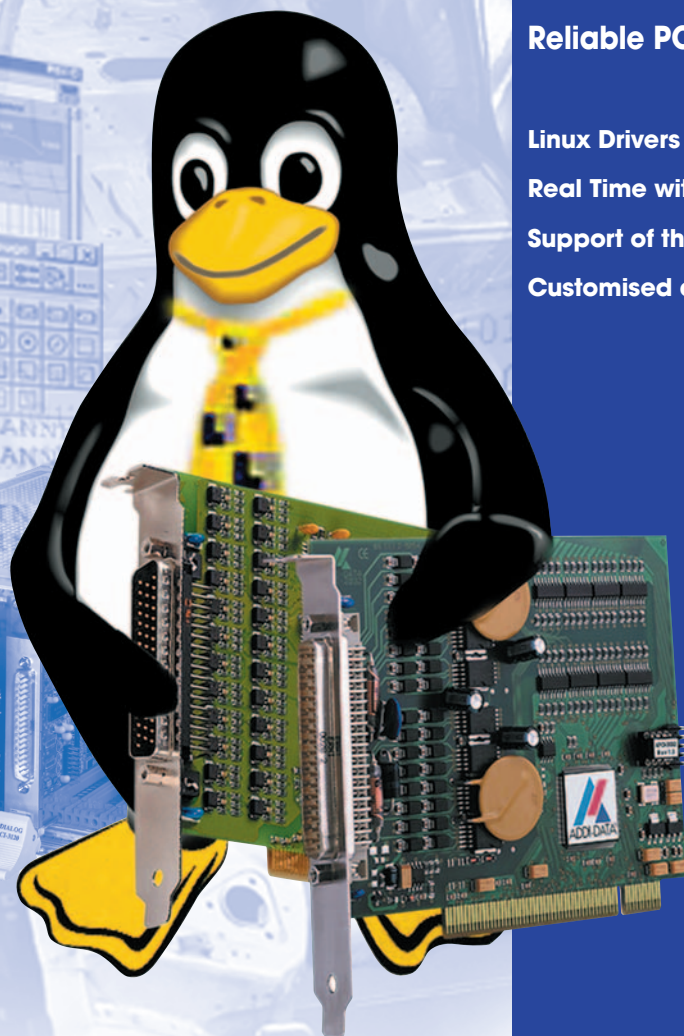


Linux in Automation & industrial Measurement



www.addi-data.com



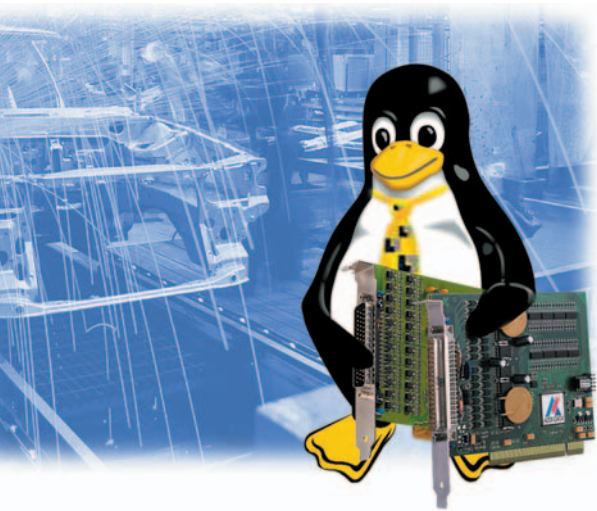
Reliable PC Measurement Boards

Linux Drivers

Real Time with RTAI

Support of the Comedi Interface

Customised application solutions



Safety and reliability

Through continuous development Linux has won in maturity and stability. Thank to this stability Linux is dedicated for tasks in the automation industry and can realise high-performance systems cost-effectively. ADDI-DATA is a manufacturer of reliable PC plug-in boards and herewith supports the user which have decided to implement this new kind of operating system. For almost all of its PCI measurement boards ADDI-DATA supplies free Linux drivers from the kernel version 2.4.2. These drivers can be downloaded at any time from the web www.addi-data.com and are also delivered on the standard driver CD-ROM.

To program your ADDI-DTA board in a more flexible way, you can choose from two possibilities: The direct driver allows you to communicate with the functionalities of the different components. On the other side the COMEDI interface has been developed allowing standardised accesses to different resources. The use of various kinds of measurement boards in a single system is then facilitated. Customised developments can be realised on request: for instance the drivers can be used for the real-time extensions under Linux such as RTAI and RT-Linux or any other kernel version. The drivers are supplied under the GNU public license and are available as open source for any specific application.

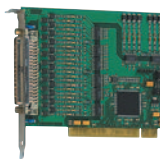

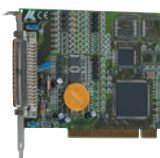
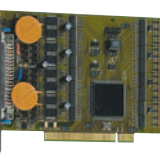

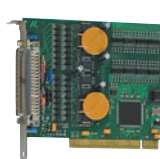
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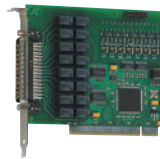
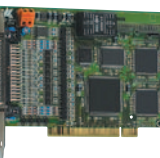
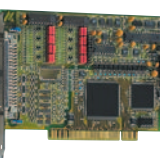

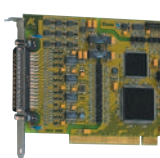

Some of the ADDI-DATA PC measurement boards which are supplied with Linux as a standard software library:

Of course you can receive any other ADDI-DATA board with the corresponding driver for your Linux application!

Digital I/O

APCI-1032	32 digital inputs, 24 V, isolated
	<ul style="list-style-type: none"> 32 digital inputs, 24 V, isolated including 16 interruptible Optical isolation 1000 V Addressing through BIOS 32-bit data bus Protection against pole reversal All inputs are filtered Protection against fast transients (Burst), overvoltage, electrostatic discharge and high-frequency EMI Additional noise suppression on the interrupt lines
APCI-1500	32 digital inputs and outputs, 24 V, isolated
	<ul style="list-style-type: none"> 16 digital inputs, 24 V, isolated, including 14 interruptible 16 digital outputs, 24 V, isolated, 10 to 36 V, 500 mA/channel Optical isolation 1000 V Watchdog for resetting the outputs to "0" Protection against fast transients, overvoltage, electrostatic discharge and high-frequency EMI Inputs: protection against pole reversal, input filters Outputs protected against short-circuit At power-on/reset all outputs are set to "0"
APCI-1516	16 digital inputs and outputs, 24 V, isolated
	<ul style="list-style-type: none"> 8 digital inputs, 24 V, isolated, 8 digital outputs, 24 V, isolated 10 to 36 V, 500 mA/channel Optical isolation 1000 V Watchdog for resetting the outputs to "0" Protection against fast transients, overvoltage, electrostatic discharge and high-frequency EMI Inputs: protection against pole reversal, input filters Outputs protected against short-circuit At power-on/reset all outputs are set to "0" Diagnostic report in case of short-circuit, overtemperature, voltage drop ... 24 V power outputs with protection diodes
APCI-1564	64 digital inputs and outputs, 24 V, 500 mA, isolated
	<ul style="list-style-type: none"> 32 digital inputs, 24 V, isolated, including 16 interruptible and 3 as 32-bit counter inputs 32 digital outputs, 24 V, isolated, 10 to 36 V, 500 mA/channel Optical isolation 1000 V Watchdog for resetting the outputs to "0" Protection against fast transients, overvoltage, electrostatic discharge and high-frequency EMI Inputs: protection against pole reversal, input filters Outputs protected against short-circuit At power-on/reset all outputs are set to "0"
APCI-2016	16 digital outputs, 24 V, isolated
	<ul style="list-style-type: none"> 16 dig. outputs, 24 V, isolated, 10 to 36 V, 500 mA/channel, limited to 3 A Optical isolation 1000 V Watchdog for resetting the outputs to "0" At power-on/reset all outputs are set to "0" Protection against fast transients, overvoltage, electrostatic discharge and high-frequency EMI Outputs protected against short-circuit Overtemperature and overvoltage protection 24 V power outputs with protection diodes and filters Shutdown logic when the ext. supply voltage drops below 5 V
APCI-2032	32 digital outputs, 24 V, isolated
	<ul style="list-style-type: none"> 32 digital outputs, 24 V, isolated, 10 to 36 V, 500 mA/channel, limited to 3 A Optical isolation 1000 V Watchdog zur Rücksetzung der Ausg. auf "0" At power-on/reset all outputs are set to "0" Protection against fast transients, overvoltage, electrostatic discharge and high-frequency EMI Outputs protected against short-circuit Overtemperature and overvoltage protection 24 V power outputs with protection diodes and filters Shutdown logic when the ext. supply voltage drops below 5 V

Analog I/O Counter Relay

APCI-2200	Relay output board, 8/16 relays, isolated
	<ul style="list-style-type: none"> 8 or 16 electromechanic relays with change-over contacts, optical isolation Max. switching voltage for the relays: 60VDC, 48VAC Max. switching current: max. 1 A Short response time Option: 8 digital inputs with optical isolation Input voltage: 12-24V (AC+DC) Watchdog: activation and time selection through software EMC tested Watchdog activity can be read back
APCI-1710	Multifunction counter board, isolated, incremental encoder, SSI, counter/timer, frequency measurement
	<ul style="list-style-type: none"> Function selection through software Optical isolation TTL, RS422, 24 V 32-bit data access Counter component with 32-bit depth and 5 MHz counting frequency Signals in TTL or RS422 mode (APCI-1710), 24 V signals (APCI-1710-24V) Four on-board function modules Functions freely programmable
APCI-3001/APCI-3120	Analog input board, 12-bit, multifunction board, 16-bit, isolated 500 V
	<ul style="list-style-type: none"> 16 SE/8 diff. inputs or 8 SE/4 diff. inputs, or 4 SE 12-bit resolution (APCI-3001), 16-bit resolution (APCI-3120) Data transfer rate: 100 kHz voltage inputs (current inputs optional) Programmable gain freely programmable for each channel Conversion through software, sequence, timer, external event On-board FIFO for 256 analog values PCI-DMA (Windows 2000/NT), sequence RAM Overvoltage protection, input filter: 160 kHz 8 digital I/O 24 V, isolated Only for APCI-3120: <ul style="list-style-type: none"> Protection against high-frequency EMI 4 or 8 analog outputs, 14-bit Setting time: 30 µs typ.
APCI-3122	Multifunction board: digital I/O control with analog outputs, isolated 500 V
	<ul style="list-style-type: none"> 4 analog outputs, ± 10V 12-bit resolution Output voltage after reset: 0 V Each output has its own ground line (without optical isolation) Setting time 15 µs typ 22 digital I/O, 24V Short-circuit protection: ± 20 mA 10 isolated digital inputs, 24 V Protection against pole reversal, filters 12 isolated digital outputs, 10 to 36 V, output current/channel 500 mA Watchdog for resetting the outputs to "0" At power-on/reset all outputs are set to "0"
APCI-3200	Acquisition of thermocouples, Pt100, optical isolation
	<ul style="list-style-type: none"> Optical isolation 1000 V Up to 16 channels for thermocouples or 8 inputs for resistance temperature detectors (RTD) or 16 SE/diff. analog inputs. 18-bit resolution, 16-bit accuracy Cold junction compensation (screw terminal board PX 3200) On-board gain and offset calibration Sampling rate for 16-bit resolution guarantees from 20, 40, 80 or 160 Hz/channel Short-circuit and line break detection 4 digital inputs, 3 digital outputs, 24 V Linearisation through table and calculation Protection against overvoltage (± 30 V) and high-frequency EMI
APCI-3501	Analog outputs, 14-bit, optical isolation
	<ul style="list-style-type: none"> Optical isolation 500 V 4 or 8 analog outputs, 14-bit Setting time: 30 µs typ. Output voltage: ± 10V, 0-10 V Each output has its own ground line Protection against short-circuit, EMI filter 4 digital I/O, 24 V, isolated

**ON REQUEST:
ISA AND CPCI BOARDS
WITH LINUX DRIVER!**

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PRODUCT INTEREST:

- Digital input and output boards, 24 V
- Relay board
- Multifunction counter boards
- Analog input and output boards
- Communication boards
- Motion control boards
- Others: _____
- Free information about ADDI-DATA software: _____
- Other: _____

BUS SYSTEM:

- PCI bus
- ISA bus
- CompactPCI bus

INFORMATION:



Yes, I want to know more!
Please send me free information about ADDI-DATA products

Direct information on the web!

Visit us!

www.addi-data.com

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