

PCI-Express model



37pin D-Sub female connector



Adapter cable with mounting bracket for 16 TTL digital I/Os

ADQ-10 series

Digital I/O board with 16 isolated digital inputs, 16 isolated digital outputs and 16 TTL digital I/Os

Perfectly for automation

The ALLDAQ ADQ-10 is a digital I/O board for use in **industrial automation and control environments**. Alternatively models for CompactPCI and standard PCI Express bus are provided. The board offers 16 opto-isolated digital inputs and 16 opto-isolated digital outputs with an isolation voltage of up to 1 kV. Via an adapter cable with mounting bracket further 16 TTL digital I/Os can be used.

The **16 opto-isolated inputs** are assembled with over-voltage protection diodes protecting from input voltages > 45 V. All inputs can be monitored on bit change or bit match and can be used to generate an interrupt event.

The source drivers of the 16 opto-isolated outputs can drive up to 0.7 A per channel in continuous operation. The output voltage range is 10.5..45 V to control programmable logic controllers (PLC) according to IEC 61131. The output buffers come with a thermal overload protection, current limitation, short-circuit protection and an under-voltage monitoring. For powering the outputs an external power supply with sufficient power is required (not included).

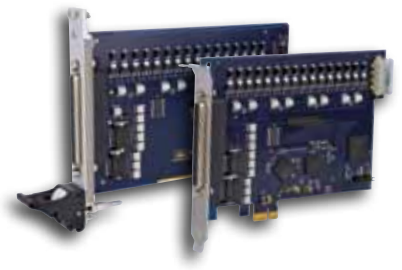
Technical Data

Element	Specification
PC interface (depends on model)	CompactPCI bus (32 bit, 33 MHz) Rev. 2.2, PCI Express x1 Rev. 1.0
Opto-isolated digital inputs	2 x 8 bit digital input ports (uni-directional), up to 1 kV isolated input high level: $U_{IH} = 2.5 \dots 32V$
Opto-isolated digital outputs	2 x 8 bit digital output ports (uni-directional), up to 1 kV isolated output high level: $U_{OH} = 10.5 \dots 45V$ according to IEC 61131 max. 0.7 A per channel with current limitation per channel, overload protection per port depending on junction and case temperature
TTL digital I/Os	2 x 8 bit TTL I/Os (bi-directional), direction configurable per port
Power supply for outputs	external supply for opto-isolated outputs, min. 11,2A
+5V supply	+5V supply of the board via Molex connector for connection with PC power supply (only for PCI Express boards)
Power consumption board	+5V: typ. 300 mA (without ext. load)
Environment	Temperature operation: 0..70 °C Humidity operation: 20%..55% (not condensing) Temperature storage: -40..100 °C Humidity storage: 5%..90% (not condensing)
Certifications	EMC Directive 2004/108/EG, Emission EN 55022, Noise immunity EN 50082-2, RoHS
Dimensions (without mounting bracket and connector)	ADQ-10-PCIe: 158 mm x 111,15 mm (B x H) ADQ-10-cPCI: 3 HE CompactPCI board
Connectors	ADQ-10-PCIe: 37-pin D-Sub female connector + Molex connector (+5V) ADQ-10-cPCI: 37-pin D-Sub female connector
Manufacturer warranty	36 months

Software Support

A wide software support enables the simple integration of the boards in your preferred software environment.

Errors and technical modifications excepted.



Package content



ADQ-10-cPCI (Art.-Nr. 107163)
or ADQ-10-PCle (Art.-Nr. 107162)



25-pin D-Sub male connector (Art.-Nr. 112353)
37-pin D-Sub male connector (Art.-Nr. 112354)



Adapter cable with mounting bracket from
20-pin IDC connector to 25-pin D-Sub
female connector
ADQ-AP-D25F-cPCI (Art.-Nr. 111755) or
ADQ-AP-D25F-PCle (Art.-Nr. 111756)



Documentation
and driver software

Accessories (optional):

ADQ-CR-D25M-D25F-x

Shielded round cable from 25-pin D-Sub male connector to 25-pin D-Sub female connector, different length
(length: 1.8 m, Art.-Nr. 111752)



Figure similar

ADQ-CR-D37M-D37F-x

Shielded round cable from 37-pin D-Sub male connector to 37-pin D-Sub female connector, different length
(length: 1.8 m, Art.-Nr. 111753)

ADQ-TB-D25M-HUT

25-pin connector block for mounting on DIN rail, 25-pin D-Sub male connector to clamps of type „Phoenix“
(Art.-Nr. 111749)

ADQ-TB-D37M-HUT

37-pin connector block for mounting on DIN rail, 37-pin D-Sub male connector to clamps of type „Phoenix“
(Art.-Nr. 111750)

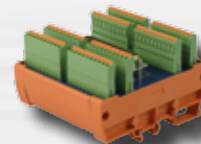
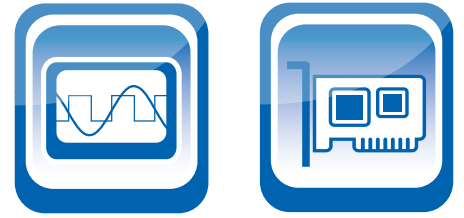


Figure similar



PC Measurement

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Measurement Instruments

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