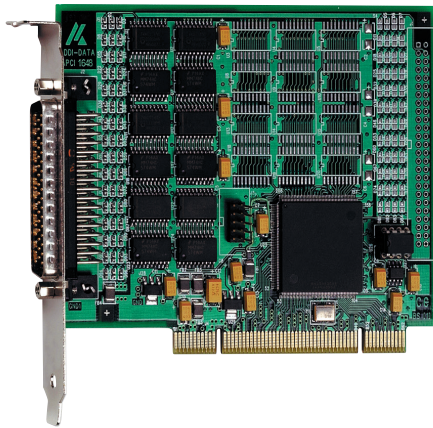


# TTL I/O board, 48 digital TTL inputs and outputs



PCI 32-bit



## APCI-1648 – 48 digital TTL I/O

Driver capacity up to 20 LSTTL loads

Can be configured as inputs  
or outputs in groups of 8 channels

Filter on each I/O line

### Features

- PCI 3.3V or 5V
- 48 digital TTL inputs/outputs (APCI-1648)
- Each group of 8 lines (1 port) can be configured as input or output.
- All I/Os are led to 5V over pull-up resistors.
- Easy programming through I/O read/write commands

### Connection

- 50-pin D-Sub male connector

### Software

#### Drivers and samples

A CD containing standard drivers as well as programming samples (source code or compiled) for different programming environments is supplied with the board. This software can also be downloaded for free from our website ([www.addi-data.com/downloads](http://www.addi-data.com/downloads)).

Software for other operating systems and programming environments is available on request.

#### ADDIPACK functions

- Digital input
- Digital output

### Specifications

#### 48 TTL I/O

|                                |                             |
|--------------------------------|-----------------------------|
| Inputs and outputs:            | 48 digital TTL I/O          |
| I/O address range:             | 128 bytes                   |
| Access:                        | 8-bit, 32-bit               |
| Programming:                   | Through write/read commands |
| Driver type:                   | 74ALVC164245                |
| Max. input and output voltage: | TTL level                   |
| Output current:                | DC ± 50 mA                  |

#### EMC – Electromagnetic compatibility

The product complies with the European EMC directive. The tests were carried out by a certified EMC laboratory in accordance with the standard DIN EN IEC 61326-1. The limit values as set out by the European EMC directive for an industrial environment are complied with. The respective EMC test report is available on request.

#### Physical and environmental conditions

|                      |   |
|----------------------|---|
| Dimensions:          | 127 x 80 mm   |
| System bus:          | PCI 32-bit 3.3 / 5 V acc. to spec. 2.2 (PCI-SIG)        |
| Space required:      | 1 PCI slot<br>+ 1 PCI slot for cable FB1696 (APCI-1696) |
| Operating voltage:   | +5 V from the PC  |
| Current consumption: | 100 mA ± 10 % (TTL channels connected as outputs)       |
| Connectors:          | 50-pin D-Sub male connector                             |
| Temperature range:   | 0 to 60 °C (with forced cooling)                        |

### Ordering information

**APCI-1648:** TTL I/O board, 48 digital TTL inputs and outputs. Incl. technical description and software drivers.

#### Accessories

- PX8001:** 3-row screw terminal panel, 50-pin, for DIN-rail mounting  
**ST370-16:** Shielded round cable, 2 m

