

# TTL I/O board, bidirectional 48 or 96 digital TTL inputs/outputs



## APCI-1696 - 96 digital TTL I/O

## APCI-1648 - 48 digital TTL I/O

Driver capacity to 15 TTL loads

Bidirectional I/O

configurable through software

Timer

Filter on each I/O line

### Features

- 48 digital TTL inputs/outputs (APCI-1648)
- 96 digital TTL inputs/outputs (APCI-1696)
- Each group of 8 lines (1 port) can be configured as input or output
- All I/O are driven through pull-up resistors to 5 V
- Easy programming through I/O read/write commands

### Connection

- APCI-1648: 50-pin SUB-D male connector
- APCI-1696: I/O 1-48: 50-pin SUB-D male connector and I/O 49-96: 50-pin connector to an additional bracket

### EMC tested acc. to 89/336/EEC

- IEC 61326: electrical equipment for measurement, control and laboratory use

### Software drivers

In preparation

Current driver list on the web: [www.addi-data.com](http://www.addi-data.com)

### Specifications

#### 48 TTL I/O channels - 96 TTL I/O channels

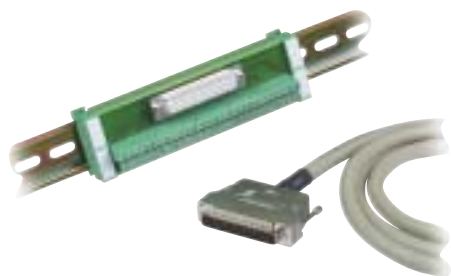
Inputs and outputs:	48 digital TTL I/O (APCI-1648) 96 digital TTL I/O (APCI-1696)
I/O address range:	128 bytes
Addressing:	32-bit
Programming:	through read/write commands
Drive type:	74 HC 574
Max. input/output voltage:	TTL level
Output current:	DC $\pm$ 35 mA

#### Noise immunity

Test level:	- ESD: 4 kV - Fields: 10 V/m - Burst: 4 kV - Conducted radio interferences: 10 V
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#### Physical and environmental conditions

Dimensions:	131 x 99 mm
System bus:	PCI
Space required:	short board + 1 additional slot opening for bracket (APCI-1696)
Operating voltage:	+5 V and +3.3 V $\pm$ 5 % from PC
Current consumption:	-
Connection:	APCI-1648: 50-pin SUB-D male connector APCI-1696: 50-pin SUB-D male connector and for I/O 49 - 96 on separate 50-pin bracket
Temperature range:	0 to 60 °C (with forced cooling)



## ORDERING INFORMATION

### ADDINUM APCI-1648

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

**APCI-1696:** TTL I/O, 96 inputs/outputs. Incl. 50-pin ribbon cable for dig. E/A connection. Incl. technical description and software drivers

### Connection

**ST370-16:** Round cable, shielded, 2 m

**PX 8000:** Screw terminal board

[www.addi-data.com](http://www.addi-data.com)

Sales: +49(0)7223/9493-120  
Fax: +49(0)7223/9493-92