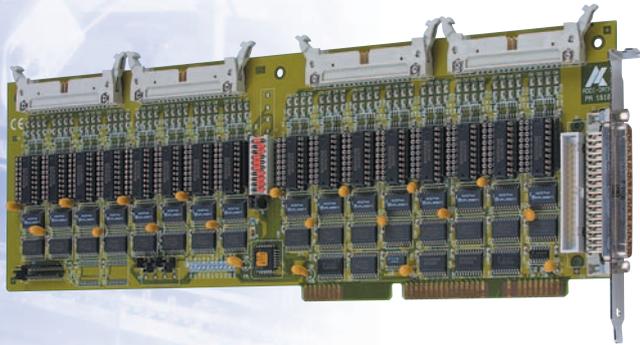


128 TTL I/O board bidirectional



PA 1610

128 TTL I/O channels

Bidirectional

Easy programming

16-bit access

Features

- 128 inputs/outputs organised in 4 groups of 32 channels
- Each module can be configured so that the channels are set either as 32 inputs or as 32 outputs
- Easy programming through I/O read/write commands
- All outputs can be read back
- After reset, the outputs are initialized at "0" or "1" (selection through jumper)
- LS output drivers mounted on sockets
- Sockets for pull-up and pull-down resistors on all channels for a better adaptation to your application
- Addressing through DIP switches

Connection

- Each module has a 34-pin male connector
- A set of ribbon cables is available for connecting the 4 modules to 4 x 37-pin SUB-D connectors (FB1610)

Safety features

- Protection against fast transients and overvoltage through transorb diodes (PA 1611)
- Noise neutralization of the PC supply (capacitors)

EMC tested acc. to 89/336/EEC

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

Software drivers

For Windows NT/98/95, MS-DOS, Visual C++ 5.0, Borland C++ 5.01, Delphi 4.0, LabVIEW 5.01

On request: Labwindows/CVI, Visual Basic 5.0, Diadem

Specifications

128 TTL I/O channels

Inputs and outputs:	organised in 4 groups of 32 channels
I/O address range:	16 bytes
Access:	16-bit
Programming:	through read/write commands
Types of drivers:	LS 245
Max. I/O voltage:	TTL level
I/O Low:	24 mA
I/O High:	- 15 mA
Short-circuit output current:	Max. - 225 mA
Signal delay:	70 ns

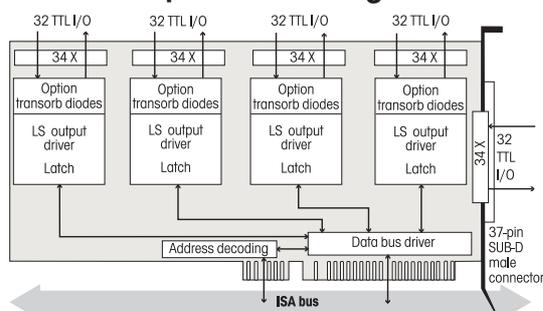
Noise immunity

Test level:	- ESD: 4 kV
	- Fields: 10 V/m
	- Burst: 4 kV
	- Conducted radio interferences: 10 V

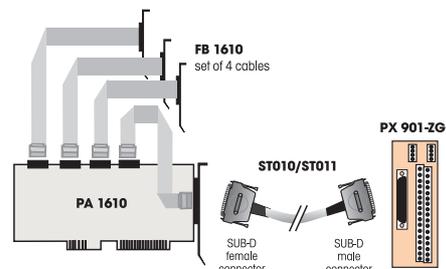
Physical and environmental conditions

Dimensions:	338 x 110 mm
System bus:	ISA
Place required:	long board, 1 AT slot, + 3 additional slot openings for brackets
Operating voltage:	+5 V, $\pm 5\%$ from PC
Current consumption:	740 mA typ.
Connection:	Set of 4 ribbon cables: 3 x 34-pin female connector to 37-pin SUB-D male connector with brackets, 1 x 34-pin female connector for the on-board connection to the front connector
Temperature range:	0 to 60 °C (with forced cooling)

Simplified block diagram



ADDI-DATA connection



ADDINUM PA 1610

PA 1610: 128 TTL I/O board, bidirectional. Incl. technical description and software drivers

Versions

PA 1610: 128 TTL I/O

PA 1611: 128 TTL I/O, with transorb diodes

ORDERING INFORMATION

Connection

FB1610: Set of 4 ribbon cables

ST010: Round cable, shielded, 2 m

PX 901-ZG: Screw terminal board for DIN rail