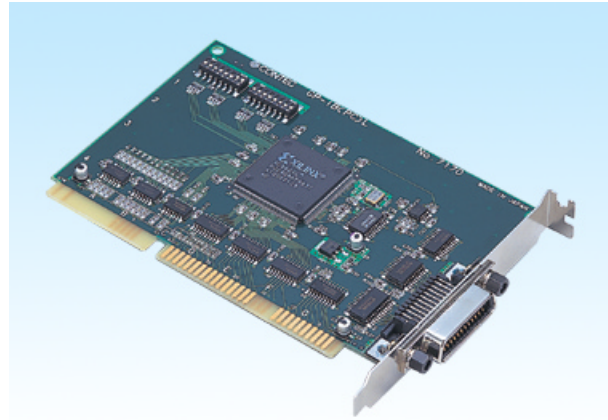


LOW COST IEEE-488.2 Interface Board GP-IB(PC)L

GP-IB(PC)L is external equipment with GPIB interface, and the interface board of the ISA Bus conformity which performs parallel transmission. This board is used mounting in the ISA Bus expansion slot of the main part of a personal computer.



Features

- Since it is based on IEEE-488.2 standard, transfer of the various external equipments and signal which were defined by this standard can be performed.
- FPGA (compatibility with mPD7210C) of our company is used as GPIB controller, and stable supply is possible over a long period of time.
- Data can be transmitted and received at the transmission rate (in the case of DMA transfer a maximum of about 400 Kbyte/sec) of the maximum about 120K byte/sec. Moreover, setup of DMA Channel is performed by software.
- Interruption by the side of a slave (IRQ 9-15) can be used.
- Setup of hardware is unnecessary in order to perform interruption setup by software.
- The timer which can be used with application is carried, and even if used in the Windows environment, exact time surveillance is made.
- GPIB bus line read-out function can perform each processing by the line change from application.(with latch function)

Cable/Connector

Cable

- GPIB cable (2m): PCN-T02
- GPIB cable (4m): PCN-T04

Connector

- GPIB Connector: CN-GP/C
This is useful if the cable used to connect to the instrument or other device is obstructed by the device's case. See the troubleshooting section at the end of Chapter 2.

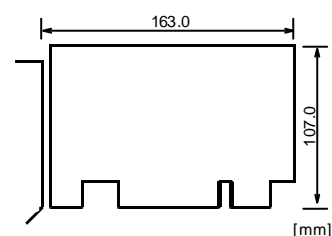
* Check the CONTEC' s Web site for more information on these options.

Specifications

Item	Specifications
Number of channel	1 channel Conforms to IEEE-488.1, 488.2(GPIB)standards
Transfer format	8-bit parallel, 3-wire handshake system
Transfer rate	400Kbyte/sec Max.
Signal logic	Negative logic L level : 0.8V or less H level : 2.0V or more
Interrupt	1 interrupt (IRQ3-7, 9-12, 14-15)
Total cable length	20m Max.
Cable length between device	4m Max. *1
Connectable number of device	Max. 15 devices
I/O address	32 ports
Consumed current	+5VDC 350mA Max.
Operating conditions	0-50° C, 20-90% (no condensation)
External dimensions	160.0x107.0x18.5mm
Weight	130g

*1 For details, see item (2) in Chapter3, "Connecting Cables".

Board outside size



Packing List

- GP-IB(PC)L Board - 1
- User's Guide (this booklet) - 1

Support Software

Driver Software Package API-PAC(W32) (Bundled)

API-PAC(W32) is the library software that provides the commands for CONTEC hardware products in the form of Windows standard Win32 API functions (DLL). It makes it easy to create high-speed application software taking advantage of the CONTEC hardware using various programming languages that support Win32 API functions, such as Visual Basic and Visual C/C++.

It can also be used by the installed diagnosis program to check hardware operations.

CONTEC provides download services (at <http://www.contec.com>) to supply the updated drivers and differential files.

For details, read Help on the bundled CD-ROM or visit the CONTEC's Web site.

Operating environment

OS	Windows XP, 2000, Me, 98, etc..
Adaptation language	Visual C++, Borland C++, Visual Basic, Delphi, Builder, etc..
Others	Each piece of library software requires 50 megabytes of free hard disk space.

API-GLV(W32) library supporting LabVIEW (Bundled)

API-GLV(W32) is a driver created according to the National Instruments Corporation's GPIB function style. The driver is software to control the CONTEC GPIB PC Card using a LabVIEW-based GPIB system or existing application program.

It can also be used by the installed diagnosis program to check hardware operations.

CONTEC provides download services (at <http://www.contec.com>) to supply the updated drivers and differential files.

For details, read Help on the bundled CD-ROM or visit the CONTEC's Web site.

Operating environment

OS	Windows XP, 2000, Me, 98, etc..
Adaptation language	LabVIEW, Visual C++, Borland C++, Visual Basic, etc..
Others	Each piece of library software requires 20 megabytes of free hard disk space.

Base package of ActiveX components for measurement system development ACX-PAC(W32)BP (Option)

This is a set of useful Windows development tools for measurement systems and consists of a software component library with ready-to-use samples which you can combine for

easy programming.

The package contains components for controlling CONTEC I/O boards (PC cards). Features include interface control for analog I/O, digital I/O, GPIB communications, and counter inputs, as well as X-Y plotting and file storage support.

Check the CONTEC's Web site for more information on this soft.

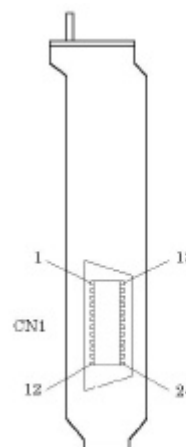
Advanced package of ActiveX components for measurement system development ACX-PAC(W32)AP (Option)

Complements the ACX-PAC(W32)BP functions with additional components including graphics (plotting, switches, and lamps, etc.) and mathematical and analysis tools.

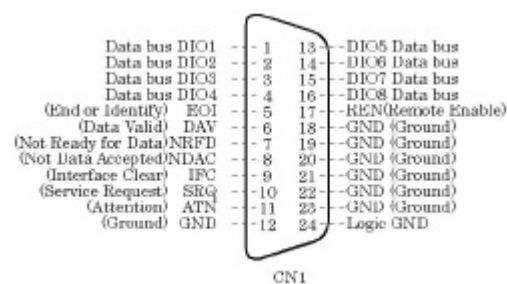
Check the CONTEC's Web site for more information on this soft.

Interface Connector

It connects with external apparatus using the interface connector on board.



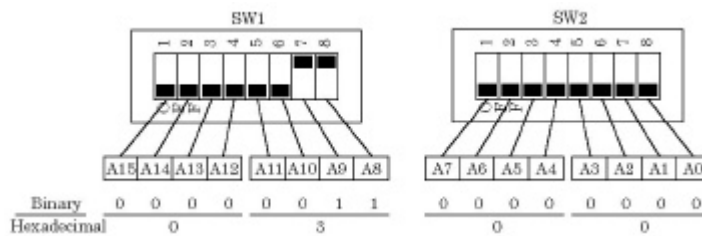
On-board connector : 555139-2(AMP)
Applicable connector : GP-IB cable (IEEE-488 rated)



Setup of I/O Address

A head I/O Address is set up with the DIP switch on board (SW1, SW2). Each bits of SW1 and SW2 is equivalent to 16 bits (A15-A0) of a head I/O Address.

ON of each bits of SW1 and SW2 and OFF show the value which changed the head I/O Address into binary, ON corresponds to [1], and OFF corresponds to [0].



Setup of Interrupt Level

When using whether it is using interruption on this board, it sets up by software which interruption level is used.

Note

In the driver software of our company, interruption is surely used.

Please set up not to overlap the interruption level currently used by other apparatus.

Setting method

There is no setup on board.

Interruption level used with driver software is set up.

Interruption levels which can be set up are IRQ 3-7, 9-12,

14-15.(XT-Bus serves as IRQ 2-7)

Setup of DMA channel

When using whether it is using DMA transfer on this board, it sets up by software which DMA Channel is used.

Note

When you use DMA Channel, please set up not to overlap the DMA Channel currently used by other apparatus.

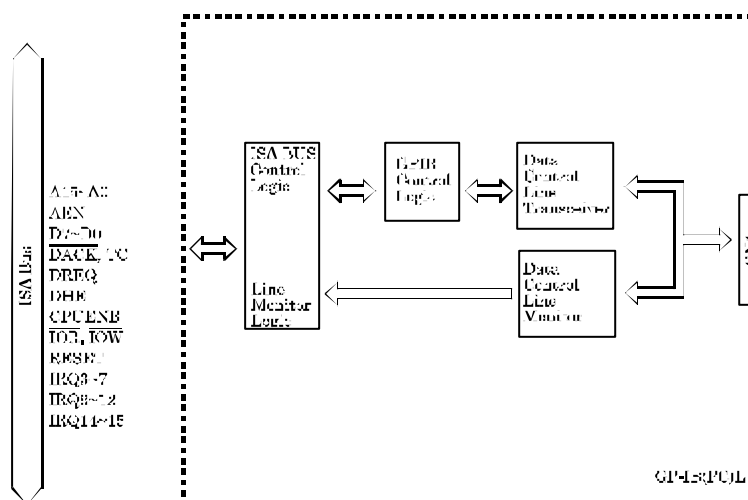
Setting method

There is no setup on board.

DMA Channel used with driver software is set up.

DMA Channel which can be set up is CH1-3.

Block Diagram



All data subject to change without notice.