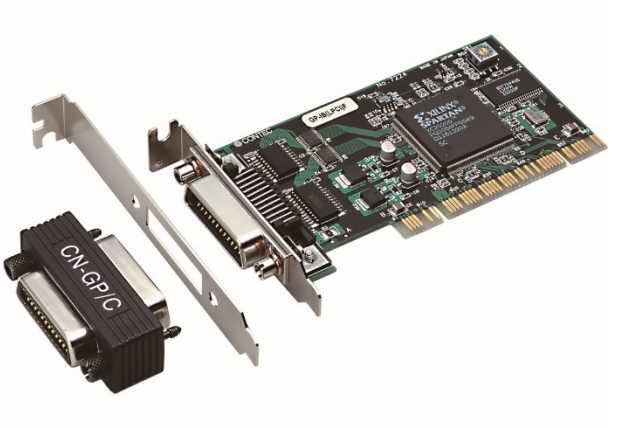
High-speed IEEE-488.2 GPIB communication board for Low Profile PCI
GP-IB(LPCI)F, GP-IB(LPCI)FL



* Specifications, color and design of the products are subject to change without notice.

Model	Name	Bus analyzer function
GP-IB(LPCI)F	High-performance high-speed IEEE-488.2 GPIB communication board	O
GP-IB(LPCI)FL	Low-price high-speed IEEE-488.2 GPIB communication board	None

Features

Complies with the IEEE-488.2 standard
As the card complies with the IEEE-488.2 standard, you can control any external device that supports this standard.

Data transfer speed 1.5Mbyte/sec max.
The maximum data transfer speed for communications is 1.5Mbyte/sec.

Supports bus master operation
The bus master data transfer function enables large quantities of data to be transferred between the board and PC without loading the CPU.

Internal 2Kbyte FIFO buffers for send and receive
The board has separate 2Kbyte FIFO buffers for sending and receiving data, allowing both small and large volumes of data to be transferred at high speed. Interface messages also use a FIFO to enable high-speed transmission.

Built-in GPIB bus analyzer function [only GP-IB(LPCI)F]
The board features a bus analyzer function. This not only allows the signals on the GPIB bus to analyzed, but also permits signal analysis to be performed while the board is performing GPIB communications

Built-in SPAS event function
In addition to the functions of the earlier GPIB controller (µPD7210), the board also supports the SPAS event generated when a serial poll occurs. This gives you a high level of flexibility in constructing your system.

Internal high-precision timer
The board includes a high-precision application timer to allow accurate time monitoring to be performed under Windows.

Long term availability
As the board uses a high-speed GPIB controller developed by CONTEC (upwardly compatible with the µPD7210), reliable long term availability is ensured.

Diagnostic program
A diagnostic program is supplied to support system development. The diagnostic program can be used to check hardware operation (interrupts and I/O addresses) and to perform simple communication tests with connected devices.

This product is a PCI bus compatible interface board with support for bus master operation and which complies with IEEE-488.1 and IEEE-488.2. The card can be used in a PC to control communications with devices that support the GPIB interface and perform GPIB bus line data analysis.

You can use the supplied driver library to develop application software using any programming language that supports the Win32 API routines (such as Visual Basic or Visual C++), or using LabVIEW.

* The contents in this document are subject to change without notice.
* Visit the CONTEC website to check the latest details in the document.
* The information in the data sheets is as of August 2019.

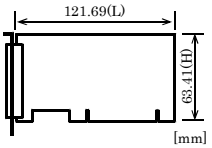
Other
Support for both of Low Profile size and standard size slots (interchangeable with a bundled bracket).

Specifications

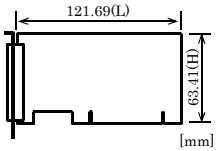
Item		GP-IB(LPCI)F	GP-IB(LPCI)FL
GPIB			
	Number of channel	1ch, Conforms to IEEE-488.1, 488.2(GPIB)standards	
	Transfer format	8-bit parallel, 3-wire handshake system	
	Transfer rate	1.5Mbyte/sec	
	Data buffer size	2Kbyte send, 2Kbyte receive	
	Signal logic	Negative logic L level : 0.8V or less, H level : 2.0V or more	
	Cable length between device	4m or less	
	Total cable length	20m or less	
	Connectable number of device	15 devices (Max.)	
	Analyzer buffer size	64K data points (1 data point: Control signals + DIO1 to 8)	None
Bus master section			
	DMA channels	2ch	
	Transfer bus width	32-bit	
	Transfer data length	8 PCI Words length (Max.)	
	Transfer rate	80Mbyte/sec	
	Scatter/Gather function	64Mbyte/ch	
Common section			
	I/O address	Any 128-byte boundary	
	Interrupt	1 level use	
	Consumed current	5VDC 400mA (Max.)	
	Operating conditions	0 - 50℃, 10 - 90%RH (No condensation)	
	PCI bus specification	32-bit, 33MHz, Universal key shapes supported *1	
	Physical dimensions(mm)	121.69(L) x 63.41(H)	
	Weight	110g	
Standard		VCCI Class A, CE Marking (EMC Directive Class A, RoHS Directive)	

Board Dimensions

<GP-IB(LPCI)F>



<GP-IB(LPCI)FL>



The standard outside dimension (L) is the distance from the end of the board to the outer surface of the slot cover.

Support Software

NOTE:
This hardware does not support Windows 95, Windows 98 and Windows NT 4.0/3.51.

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

For more details on the supported OS, applicable language and new information, please visit the CONTEC's Web site.

API-GPLV(W32) library supporting LabVIEW
[Stored on the bundledmedia driver library API-PAC(W32)]
API-GPLV(W32) is a driver created according to the National Instruments Corporation's GPIB function style. The driver is software to control the CONTEC GPIB board (PC Cards) 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

For more details on the supported OS, applicable language and new information, please visit the CONTEC's Web site.

Linux version of general-purpose count driver: API-GPIB(LNX)
[Stored on the bundledmedia driver library API-PAC(W32)]
This driver is used to control CONTEC GPIB boards (PC Cards) from within Linux. You can control CONTEC GPIB boards easily using the shared library called from the user application, the device driver (module) for each kernel version, and the board (PC Cards) configuration program (config). CONTEC provides download services

For more details on the supported OS, applicable language and new information, please visit the CONTEC's Web site.

Cable & Connector

Cable (Option)
GPIB cable (2m) : PCN-T02

GPIB cable (4m) : PCN-T04

GPIB Connector : CN-GP/C *1*2

*1 Effective when the cable being plugged into the board interfere with the PC's main unit.
*2 The GPIB connector adapter [CN-GP/C] is bundled with this product as a standard feature.

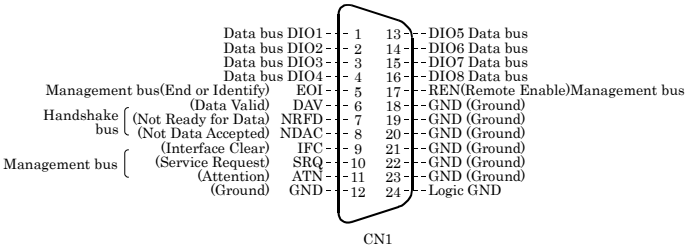
* Check the CONTEC's Web site for more information on these options.

Packing List

Board [GP-IB(LPCI)F, or GP-IB(LPCI)FL] ...1
First step guide ... 1
Disk *1 [API-PAC(W32)] ...1
GPIB connector adapter [CN-GP/C] ...1
Standard-sized bracket...1
Warranty Certificate ...1
Serial number label ...1

*1 The Disk contains the driver software and User's Guide

Connector Pin Assignment



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