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PCI GPI-8 or GPI-16 Install for Windows 2000

A GPI-8 card will have a heavy gray cable with a molded female 37-pin connector.

The GPI-16 uses the same instructions except where noted within the guide.

A GPI-16 will have two flat ribbon cables that attach to the card and pass through a slot, out the back of the computer.

The connector port closest to the slot on the card is for GPI/O 1-8 while the connector in the middle of the card is for GPI/O 9-16.

Here are the steps for installing a PCI GPI-8 or PCI GPI-16 card in Windows 2000 Professional.

IMPORTANT: One should check the BIOS of the machine for the option: PLUG and PLAY OS = YES/NO.

This option should be set to NO. If the computer BIOS does not have this option, one might not be able to get the PCI GPI card to function. In this case, one should consider using a USB based GPI device.

- 1. Shut down the PC and install the card into an available PCI slot. Once the card has been installed, re-power up the PC.
- 2. Go to the START menu. Select PROGRAMS>ADMINISTRATIVE TOOLS>COMPUTER MANAGEMENT.
- 3. Under the DEVICE MANAGEMENT section there should be a device with a "?" in front of it. RIGHT-CLICK on the device and select PROPERTIES.
- Select the RESOURCES tab. This should display two I/O addresses.

Use the lower left-hand address range

NOTE: If the card does not respond after the installation is finished, repeat the process using the upper left-hand address range.

- 5. Close the Device Properties screen and the Computer Management Screen and open the COMMAND PROMPT.
- 6. Type CD \ (This should give a C:\ prompt)
- 7. Type and enter: CD DAD\DRIVERS.NT\GPI

As of DAD version 5.0+ the path to enter is: CD DAD\DRIVERS\GPI

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- 8. Type and enter: EDIT DADPIO.INI
- 9. Find the line:

IoPortAddress = REG_DWORD 0X00000300 Change the last four digits of the line to the address found in the above steps. *For example: IoPortAddress = REG_DWORD 0X0000A000*

GPI-16 NOTE:

For a GPI-16 one must also modify the line: IoPortCount = REG_DWORD 0x00000004 Change the last digit of the line to '8' For example: IoPortCount – REG_DWORD 0x0000008

- 10. Save and exit this file.
- 11. From the DOS Prompt again, Type AUTOINST C:\DAD then hit <ENTER>. This will flash; then close the window.
- 12. Start up DAD. After DAD has loaded. Go to SETUP and then select CFI & README and open the workstation's CFI file. (Top left button in white)
- 13. Scroll down towards the bottom of the file and find the line REMOTE = 0. Modify this line to: REMOTE = PCI "Your Address" oicx (Example) REMOTE = PCI A000 oicx

GPI-16 NOTE:

If a GPI-16 is being installed, one should modify this line to: REMOTE = PCI "Your Address" oicxoicx (Example) REMOTE = PCI A000 oicxoicx

14. Find the line GPO_GPI = 0 0 0 and change it to GPO_GPI = 8 8 16

GPI-16 NOTE:

If a GPI-16 is being installed, one should modify this line to: GPO GPI = 16 16 32

15. Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. Once DAD has exited, reboot the PC.

To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the card itself when the relay opens, then closes.

If you would like an Install file to prevent Windows from wanting to install a 'New Device' you can use and install the following INF file ftp://ftp.enco.com/pub/drivers/GPI/CBI95.INF



PCI GPI-8 or GPI-16 Install for Window NT

Here are the steps for installing a PCI GPI-8 or a GPI-16 in Windows NT.

NOTE: The GPI card should be physically installed after the Instacal software has been installed on the workstation.

- 1. Install the Instacal Software that was provided with the card. If the software is not available, it can be downloaded at: http://www.computerboards.com/download.htm
- 2. Shutdown the PC and install the PCI GPI-8 or GPI-16 card into an available PCI slot. Restart the machine after the card has been installed.
- 3. Run the Instacal program. [START>PROGRAMS>COMPUTER BOARDS>INSTACAL] The program will find the new card.
- 4. Double-click on the new card it has found. It will display an IO address on the left-hand side in a grayed out box. Make note of the address, then close the Instacal program.



- 5. Open the COMMAND PROMPT and enter CD \ (This will take you to the C:\ prompt)
- 6. Type and enter: CD DAD\DRIVERS.NT\GPI As of DAD version 5.0+ the path to enter is: CD DAD\DRIVERS\GPI
- 7. Type and enter: EDIT DADPIO.INI
- Find the line (tenth from the top)
 IoPortAddress = REG_DWORD 0X0000300
 Change the last four digits of the line to the address found in the above steps.
 For example: IoPortAddress = REG_DWORD 0X0000A000

GPI-16 NOTE: For a GPI-16 one must also modify the line: IoPortCount = REG_DWORD 0x0000004 Change the last digit of the line to '8' For example: IoPortCount – REG_DWORD 0x0000008

- 9. Save and exit this file.
- 10. From the DOS Prompt again, type and enter: AUTOINST C:\DAD This will flash then close the window
- 11. From CONTROL PANEL, select and run the DEVICES icon.
- 12. Scroll down the list and find "Computer Boards Data Acquisition" Highlight that line and hit the STARTUP button to the right of it. Select the DISABLE option then OK. Close the Devices window and Control Panel.



- 13. Start up DAD. After DAD has loaded. Go to SETUP and select CFG & README. Open the workstation's CFG file. (Top left button in white)
- 14. Scroll down towards the bottom of the file and find the line REMOTE = 0. Modify this line to: REMOTE = PCI "Your Address" oicx (Example) REMOTE = PCI A000 oicx

GPI-16 NOTE:

If a GPI-16 is being installed, one should modify this line to: REMOTE = PCI "Your Address" oicxoicx (Example) REMOTE = PCI A000 oicxoicx

15. Find the line GPO_GPI = 0 0 0 and change it to GPO_GPI = 8 8 16

GPI-16 NOTE:

If a GPI-16 is being installed, one should modify this line to: GPO GPI = 16 16 32

16. Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. Once DAD has exited, reboot the PC.

To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the card itself when the relay opens, then closes.



PCI GPI-8 or GPI-16 Install for Windows XP

Here are the steps for installing a PCI GPI-8 or a GPI-16 in Windows XP.

NOTE: The GPI card should be physically installed after the Instacal software has been installed on the workstation.

- 1. Install the Instacal Software that was provided with the card. If the software is not available, it can be downloaded at: http://www.computerboards.com/download.htm
- 2. Shutdown the PC and install the PCI GPI-8 or GPI-16 card into an available PCI slot. Restart the machine after the card has been installed.
- 3. Microsoft Windows will automatically detect the card and start the Install Wizard. Allow the Install Wizard to automatically detect the card. Follow the prompts for the Wizard until finished.
- After the Wizard has completed, run the Instacal program. [START>PROGRAMS>COMPUTER BOARDS>INSTACAL] The program will find the new card.
- 5. Double-click on the new card it has found. It will display an IO address on the left-hand side in a grayed out box. Make note of the address, then close the Instacal program.



- Open the COMMAND PROMPT and enter CD \ (This will take you to the C:\ prompt)
- 7. Type and enter: CD DAD\DRIVERS.NT\GPI As of DAD version 5.0+ the path to enter is: CD DAD\DRIVERS\GPI
- 8. Type and enter: EDIT DADPIO.INI
- 9. Find the line (tenth from the top)
 IoPortAddress = REG_DWORD 0X0000300
 Change the last four digits of the line to the address found in the above steps.
 For example: IoPortAddress = REG_DWORD 0X0000A000

GPI-16 NOTE:

For a GPI-16 one must also modify the line: IoPortCount = REG_DWORD 0x0000004 Change the last digit of the line to '8' For example: IoPortCount – REG_DWORD 0x0000008

- 10. Save and exit this file.
- 11. From the DOS Prompt again, type and enter: AUTOINST C:\DAD This will flash then close the window
- 12. Uninstall the Computer Board software. This is done from START > SETTINGS >



CONTROL PANEL > Add/Remove Programs.

- 13. Start up DAD. After DAD has loaded. Go to SETUP and select CFG & README. Open the workstation's CFG file. (Top left button in white)
- 14. Scroll down towards the bottom of the file and find the line REMOTE = 0. Modify this line to: REMOTE = PCI "Your Address" oicx (Example) REMOTE = PCI A000 oicx

GPI-16 NOTE:

If a GPI-16 is being installed, one should modify this line to: REMOTE = PCI "Your Address" oicxoicx (Example) REMOTE = PCI A000 oicxoicx

15. Find the line GPO_GPI = 0 0 0 and change it to GPO_GPI = 8 8 16

GPI-16 NOTE: If a GPI-16 is being installed, one should modify this line to: GPO_GPI = 16 16 32

- 16. Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. After DAD has been exited, restart the computer.
- 17. To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the card itself when the relay opens, then closes.

GPI Install Guide

USB GPI-8 Install for Window 2000 or Windows XP

The USB GPI-8 can be used by machines that lack an available PCI slot or can not utilize a PCI GPI because of BIOS limitations.

NOTE: Support for these units was added in DAD 4.2k28 (Jun.06.03)

Here are the steps for installing a USB GPI-8 in Windows 2000 or Windows XP

- Install the Switch and Sense software. If the software is not available, it can be downloaded from the FTP site: <u>ftp://ftp.enco.com/pub/drivers/GPI/USB/Switch&Sense8.zip</u>
- 2. After the software has been installed, physically connect the USB GPI-8 to the workstation and power the USB device.
- 3. Go to START > PROGRAMS > COMPUTER BOARDS and run the Switch & Sense 8 software. This MUST be run once with the user clicking on a relay at least one time.

NOTE: This MUST happen before DAD will see the USB device.

- 4. Start up DAD. After DAD has loaded. Go to SETUP and select CFG & README. Open the workstation's CFG file.
- Scroll down towards the bottom of the file and find the line REMOTE = 0. Modify this line to: REMOTE = CBUSB8 Also modify the line GPI_GPO = 8 8 16
- 6. Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. Once DAD has exited, reboot the PC.

To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the unit itself when the relay opens, then closes.

Other notes:

If a different unit has been plugged into a pre-configured DAD workstation, the application will say there is a unit on 0 and 1. One should delete the unit on 0 (select the unit and press the big red X). After doing this reboot the workstation. When the workstation reboots, go back into the application and Test a relay. Now DAD will talk to the new unit.









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USB GPI-8/8 Install for Window 2000 or Windows XP

This USB device is an update physical unit to the older USB-8 described above. Please verify that the unit is an USB 8/8 device before installing.

NOTE: Support for these units was added in DAD 5.1.D (Sep.06)

Here are the steps for installing a USB GPI-8 in Windows 2000 or Windows XP

- Install the Instacal Software that was provided with the card. If the software is not available, it can be downloaded at: http://www.computerboards.com/download.htm
- 2. After the software has been installed, physically connect the USB GPI-8 to the workstation and power the USB device.
- Go to START > PROGRAMS > MEASUREMENT COMPUTING and run InstaCal. Select your board and run a test, the Relay Noise Test works great.

NOTE: This MUST happen before DAD will see the USB device.

 Start up DAD. After DAD has loaded. Go to SETUP and select CFG & README. Open the workstation's CFG file.

5. Scroll down towards the bottom of the file and find the line REMOTE = 0. Modify this line to: REMOTE = UNIVERSAL Also modify the line GPI_GPO = 8 8 16

Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. Once DAD has exited, reboot the PC.

To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the unit itself when the relay opens, then closes.

Other notes:

If a different unit has been plugged into a pre-configured DAD workstation, the application will say there is a unit on 0 and 1. One should delete the unit on 0 (select the unit and press the big red X). After doing this reboot the workstation. When the workstation reboots, go back into the application and Test a relay. Now DAD will talk to the new unit.

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BT SRC32 Install for Window 2000 or Windows XP

The Broadcast Tools SRC32 unit allows one to use an expandable GPI/O interface with DAD.

NOTE: Support for these units was added in DAD 4.2k28 (Jun.06.03)

Here are the steps for installing a serial BT-SRC32 unit for use with DAD.

Configuration of DAD:

Start up DAD. After DAD has loaded, go to SETUP and select CFG & README. Open the workstation's CFG file.

Scroll down towards the bottom of the file and find the following lines, modifying them as such:

COM2_INFO = "38400 N 8 1" REMOTE = BTSRC32 2 REMOTE_PROCESS_DELAY = 0 GPO_GPI = 32 32 64 GPI_REVERSE_SENSE = ON

NOTE: This guide is using Com Port 2. If you are using a different Com Port, please adjust the COMx_INFO line and the REMOTE line accordingly. For example: Comx_INFO is: Com<port number>_INFO = "38400 N 8 1" REMOTE is: REMOTE = BTSRC32 <port number>

Save the changes and close the file. Hit the yellow REFRESH Button, then EXIT DAD. Once DAD has exited, reboot the PC.

Configuration of the BTSRC32 unit:

Inside the SRC32 unit one must set the Dip Switch accordingly. [0=off / 1=on]

12345678 On xxx x

Off x x x x

Notes on Dip Switch options

Switch	1 & 2	3 & 4	5	6	7	8
Setting	0 0 = unit 0	0 0 = 9600	On =	On = Pair	Modem mode	invert LCD display status
	(master)	0 1 = 2400	Hex	Off= normal	not supported	On = [closed=1 / open=0]
	0 1 = unit 1	1 0 = 19200	Off =			Off = [closed=0 / open=1]
	1 0 = unit 2	1 1 = 38400	ASCII			
	1 1 = unit 3					

One must also change the internal jumper number 13 from EXTERNAL to RS232.

Failure to do so could result in the ability to use GPI's but NOT the ability to use GPO's.





Other Notes:

When using more than one unit, one must set the dip switches on each unit accordingly. DAD MUST talk to the unit that is defined as the Master (unit 0). The sync cable between the units must be connected to the EXT2 on the master and connected to the EXT1 on the slave unit.

Also, one must remember to modify the DAD workstation CFG file to reflect the proper amount of inputs and outputs. For example: GPO GPI = 64 64 128

IMPORTANT:

If one has followed all instructions above and can not get the unit to function properly, there is a chance that one MIGHT have to install the DADPIO with the default address.

For example, run the C:\DAD\DRIVERS\AutoInst.BAT file

This will install the DADPIO with the default address of 300.



ISA GPI-8 or GPI-16 Install for Windows NT or Windows 2000

A GPI-8 card will have a heavy gray cable with a molded female 37-pin connector.



The GPI-16 uses the same instructions except where noted within the guide.

A GPI-16 will have two flat ribbon cables that attach to the card and pass through a slot, out the back of the computer.



The connector port closest to the slot on the card is for GPI/O 1-8 while the connector in the middle of the card is for GPI/O 9-16.

Here are the steps for installing an ISA GPI-8 or ISA GPI-16 card in Windows 2000.

IMPORTANT: One will need to set either the ISA slot or an IRQ within BIOS of the machine to LEGACY. If one can not set this option, one will not be able to utilize the ISA card within the operating system.

- 1. Open the COMMAND PROMPT. Type and Enter: CD \ (*This should give a C:\ prompt*)
- 2. Type CD DAD\DRIVERS.NT\GPI then hit <ENTER>.
- 3. Type EDIT DADPIO.INI then hit <ENTER>.
- Find the line (third from the bottom) IoPortCount = REG_DWORD 0x0000004 For a GPI8, leave this line alone. Go to step 6.

GPI16 NOTE:

For a GPI16, change this line as shown below: IoPortCount = REG_DWORD 0x0000008

- 5. Save and Exit this file.
- 6. From the DOS Prompt again, Type AUTOINST C:\DAD then hit <ENTER>. This will flash then close the window.
- 7. Start up DAD.
- 8. After DAD has loaded. Go to SETUP and select README.
- 9. Open the workstation's CFG file. (Top left button in white)
- 10. Towards the bottom of the file, find the line REMOTE = 0. Change this line to read: REMOTE = 300 Also, find the line GPO_GPI = 0 0 0 and change it to GPO_GPI = 8 8 16

GPI16 NOTE:

For a GPI 16, set the line to: GPO_GPI = 16 16 32



- 11. Save the changes and close the file close. Hit the yellow REFRESH Button, then EXIT DAD.
- 12. Reboot the PC.
- 13. The GPI card should now be configured. To test the card, start DAD, open the LIBRARY, open the COMMAND window and type the line PULSE GPO 1 1000 and hit EXECUTE. This will send a relay from DAD to GPO 1. One should be able to hear a "click" on the card itself when the relay opens, then closes.





GPI8 Wiring Info

The following is a diagram for the pin layout of a GPI8.



NOTE: Supply voltage can be 5 - 30 volts AC or DC.

IMPORTANT: The card manufacture refers to the inputs and output as 0-7. DAD refers to the inputs and output as 1-8. For example: the card's pin out for Input 5 would be referred to GPI 6 in DAD.



GPI8 Pin Layout

The following is a Pin Layout Diagram of a GPI8 card.



IMPORTANT: The card manufacture refers to the inputs and output as 0-7. DAD refers to the inputs and output as 1-8. For example: the card's pin out for Input 5 [*pins 3 and 22*] would be referred to GPI 6 in DAD.



GPI16 Pin Layout

The following is a Pin Layout Diagram of a GPI16 card.

Signal Name	Pin		Pin	Signal Name
NC	50		49	NC
NC	48		47	NC
NC	46		45	NC
NC	44		43	NC
NC	42		41	NC
RELAY 6 (NC)	40		39	RELAY 5 (NC)
RELAY 7 (NC)	38		37	RELAY 0 (NO)
RELAY 0 (C)	36		35	RELAY 0 (NC)
RELAY 1 (NO)	34		33	RELAY 1 (C)
RELAY 1 (NC)	32		31	RELAY 2 (NO)
RELAY 2 (C)	30		29	RELAY 2 (NC)
RELAY 3 (NO)	28		27	RELAY 3 (C)
RELAY 3 (NC)	26		25	RELAY 4 (NO)
RELAY 4 (C)	24		23	RELAY 4 (NC)
RELAY 5 (NO)	22		21	RELAY 5 (C)
RELAY 6 (NO)	20	•••	19	RELAY 6 (C)
RELAY 7 (NO)	18		17	RELAY 7 (C)
INPUT 0	16		15	INPUT 0
INPUT 1	14		13	INPUT 1
INPUT 2	12		11	INPUT 2
INPUT 3	10		9	INPUT 3
INPUT 4	8		7	INPUT 4
INPUT 5	6		5	INPUT 5
INPUT 6	4	•••	3	INPUT 6
INPUT 7	2		1	INPUT 7

IMPORTANT: The card manufacture refers to the inputs and output as 0-7. DAD refers to the inputs and output as 1-8. For example: the card's pin out for Input 5 [*pins 5 and 6*] would be referred to GPI 6 in DAD.



USB GPI 8 Pin Layout

The following is a Pin Layout Diagram of a USB GPI 8.

Pin	Signal Name	Pin	Signal Name
IP0A	Input 0 terminal A	IP4A	Input 4 terminal A
IP0B	Input 0 terminal B	IP4B	Input 4 terminal B
IP1A	Input 1 terminal A	IP5A	Input 5 terminal A
IP1B	Input 1 terminal B	IP5B	Input 5 terminal B
IP2A	Input 2 terminal A	IP6A	Input 6 terminal A
IP2B	Input 2 terminal B	IP6B	Input 6 terminal B
IP3A	Input 3 terminal A	IP7A	Input 7 terminal A
IP3B	Input 3 terminal B	IP7B	Input 7 terminal B
0-NO	Relay 0 Normally Open contact	4-NO	Relay 4 Normally Open contact
0-C	Relay 0 Common contact	4-C	Relay 4 Common contact
0-NC	Relay 0 Normally Closed contact	4-NC	Relay 4 Normally Closed contact
1-NO	Relay 1 Normally Open contact	5-NO	Relay 5 Normally Open contact
1-C	Relay 1 Common contact	5-C	Relay 5 Common contact
1-NC	Relay 1 Normally Closed contact	5-NC	Relay 5 Normally Closed contact
2-NO	Relay 2 Normally Open contact	6-NO	Relay 6 Normally Open contact
2-C	Relay 2 Common contact	6-C	Relay 6 Common contact
2-NC	Relay 2 Normally Closed contact	6-NC	Relay 6 Normally Closed contact
3-NO	Relay 3 Normally Open contact	7-NO	Relay 7 Normally Open contact
3-C	Relay 3 Common contact	7-C	Relay 7 Common contact
3-NC	Relay 3 Normally Closed contact	7-NC	Relay 7 Normally Closed contact

IMPORTANT: The manufacture refers to the inputs and output as 0-7. DAD refers to the inputs and output as 1-8. For example: the device pin out for Input 5 [*pins IP5A and IP5B*] would be referred to GPI 6 in DAD.



BT SRC32 Pin Layout

Top-1	In-1A	In-1B	In-2A	In-2B	In-3A	In-3B
Bottom-1	In-4A	In-4B	In-5A	In-5B	In-6A	In-6B
Top-2	In-7A	In-7B	In-8A	In-8B	In-9A	In-9B
Bottom-2	In-10A	In-10B	In-11A	In-11B	In-12A	In-12B
Top-3	In-13A	In-13B	In-14A	In-14B	In-15A	In-15B
Bottom-3	In-16A	In-16B	In-17A	In-17B	In-18A	In-18B
Top-4	In-19A	In-19B	In-20A	In-20B	In-21A	In-21B
Bottom-4	In-22A	In-22B	In-23A	In-23B	In-24A	In-24B
Top 5	In 25A	In 25P	In 264	In 26P	In 274	In.27P
Bottom-5	In-28A	In-28B	In-29A	In-29B	In-30A	In-30B
	2	2			100000	2000 100 100 100 100 100 100 100 100 100
Top-6	In-31A	In-31B	In-32A	In-32B	OC-17	OC-18
Bottom-6	OC-19	OC-20	0C-21	OC-22	OC-23	OC-24
Top-7	GND	OC-25	OC-26	00-27	OC-28	00-29
Bottom-7	OC-30	OC-31	OC-32	GND	K1-A	K1-B
10p-8	K2-A	K2-B	K3-A	K3-B	K4-A	K4-B
Bottom-8	K5-A	K5-B	K6-A	K6-B	K7-A	K7-B
Top-9	K8-A	K8-B	K9-A	K9-B	K10-A	K10-B
Bottom-9	K11-A	K11-B	K12-A	K12-B	K13-A	K13-B
Ten 10	K14 A	K14 D	KIE A	KIE D	KIC A	V10.D
Rop-10	N14-A	N14-D	NID-A	TV .	A-DIV	CND-B
Bottom-10	HX +	HX •	X -	1.7 +	GND	GND

IMPORTANT: The manufacture refers to the inputs and output as 1-32. DAD refers to the inputs and output as 1-32. For example: the device pin out for Input 5 [*Screws Bottom-1 In-5a and Bottom-1 In-5b*] would be referred to GPI 5 in DAD.