# User's Guide



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## OME-SERIES DATA ACQUISITION CARDS Resource Checking User Manual



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## 1 PCI DAQ card with Win 95/98

Follow the steps below to check for resource conflicts.



Figure 1-1. The "Start" menu

- Click the "Start" button.
- Select the "Settings" menu item.
- Select the "Control Panel" menu item.

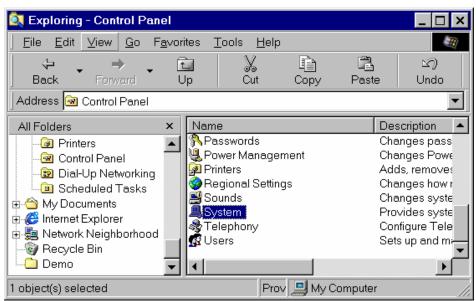


Figure 1-2. The "Control Panel" window Double click the "System" icon in the "Control Panel" folder.

_	DROM AQCard			
ĪĽ	PCI-TMC12	Card		
🗄 🖃 Ö	isk drives			
🗄 🛄 D	isplay adapter	s		
B-G-F	loppy disk cont	trollers		
±-€+	ard disk contro	llers		
Ė-€€ K	eyboard			
🗄 💭 M	onitors			
±-5×	louse			
њ. <b>ў</b> Р	orts (COM & LP	(Tr		
	ystem devices			
	niversal serial I			
- 'e				

Figure 1-3. The "System properties" window.

- Select the "Device Manager" page.
- Select the device "PCI-TMC12 Card" under the item "DAQCard".
- Click button "Properties" to see detailed information.

Some PCI cards may be under the "Other Devices" item.

PCI-TMC12 Card Pro	perties	? ×
General Driver Re	sources	
PCI-TMC12		
Setting based on	Basic configuration 0000	
Resource type	Setting	-
Memory Range	F4000000 - F400007F	
Change Setting		
No conflicts.		*
	OK	Cancel

Figure 1-4. Detailed information of the PCI DAQ card.

- Select the "Resources" page.
- Please verify that this device has no conflicts with other devices.
- In the "Conflicting device list:" box, "No conflicts" should be displayed.

If the IRQ number has conflicts with other devices, you can not use INTERRUPT or DMA functions with the DAQ card.

If the DMA number has conflicts with other devices, you can not use DMA functions with the DAQ card.

If the "Input/Output Range" has conflicts with other devices, the DAQ card will not work.

The user may need to free some resource for the PCI DAQ card by removing other devices to prevent conflict.

## 2 ISA DAQ card with Win 95/98

Follow the steps below to check if there are any resource conflicts.



Figure 2-1. The "Start" menu.

- Click the "Start" button .
- Select the "Settings" menu item.
- Select the "Control Panel" menu item.

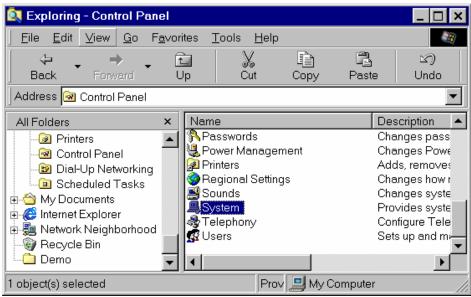


Figure 2-2. The "Control Panel" window Double click the "System" icon in the "Control Panel" folder.

System Properties
General Device Manager Hardware Profiles Performance
View devices by type     O View devices by connection
En Computer En A CDROM
🗄 🖳 Display adapters
E Stoppy disk controllers
⊞-∰ Hard disk controllers
B ■ ■ Monitors
E Mouse
E-■ Vetwork adapters
E CSI controllers
🗄 🚊 System devices
⊞-ॡ Universal serial bus controller
Properties Refresh Remove Print
OK Cancel

Figure 2-3. "Device Manager".

- Select the "Device Manager" page .
- Select the "Computer" item.
- Click the "Properties" button.

Computer P	roperties			? ×
View Reso	urces Reserve P	Resources		
	, pt <u>r</u> equest (IRQ) output (I/O)	C <u>D</u> irect memory C <u>M</u> emory	v access (DMA)	
Setting	Hardware using t	he setting		▲
00 📃	System timer			
<b>R3</b> 01	Standard 101/10	2-Key or Microsoft Nat	tural Keyboard	
🛄 02	Programmable in	iterrupt controller		
<b>J</b> 03	Communications	Port (COM2)		
204	Communications	Port (COM1)		
<b>6</b> 605	Intel 82371AB/EE	3 PCI to USB Universe	al Host Controller	
📃 05	IRQ Holder for PC	Cl Steering		
<b>3</b> 06	Standard Floppy	Disk Controller		<b>_</b>
Lillon	D. D. 10074	1 <b>1</b>		
			ОК	Cancel

Figure 2-4. "View Resources".

You must check if the card IRQ conflict with other devices.

The card IRQ will not be shown in the above window. You must set the card IRQ number via the jumper on the card. The card IRQ number should not be listed in the above window in order to prevent conflicts.

If there are no additional IRQs available for use by the DAQ card, you may need to remove some other device to free an IRQ. Otherwise, you can not use INTERRUPT and DMA functions of the DAQ card

Computer Propertion	es Reserve Resources	? ×
<ul> <li>Interrupt reque</li> <li>Input/output (I/</li> </ul>		
Setting	Hardware using the setting	
📃 0000 - 000F	Direct memory access controller	
📃 0010 - 001F	In use by unknown device.	
📃 0020 - 0021	Programmable interrupt controller	
📃 0022 - 003F	In use by unknown device.	
📃 0040 - 0043	System timer	
🛄 0044 - 005F	In use by unknown device.	
🥸 0060 - 0060	Standard 101/102-Key or Microsoft Natural Keyboard	
📃 0061 - 0061	System speaker	
	1 I I I I I	
	OK Can	cel

Figure 2-5. "View Resources".

• Click the "Input/Output (I/O)" item to see the system resources.

Verify that the "Input/Output (I/O)" address of the DAQ card does not conflict with any other device.

The "Input/Output (I/O)" address of the DAQ card will not be shown in the above window. You must set the "Input/Output (I/O)" address of the DAQ card by switches on the card. The "Input/Output (I/O)" address must not be listed in the above window to prevent conflicts.

If Windows has no additional "Input/Output (I/O)" addresses available for use by the DAQ card, you must remove some other device to free the "Input/Output (I/O)" address.

Computer Properties	? ×
View Resources Reserve Resources	
Interrupt request (IRQ)     Interrupt <u>request</u> (IRQ)     Input/ <u>o</u> utput (I/O) <u>Memory</u>	
Setting Hardware using the setting	
🔁 02 Standard Floppy Disk Controller	
04 Direct memory access controller	
,	
ОК	Cancel

Figure 2-6. "View Resources".

• Click the "Direct memory access (DMA)" item to see the DMA resources.

You must verify that the DAQ card "Direct memory access (DMA)" resource does not conflict any other devices.

The "Direct memory access (DMA)" resource for the DAQ card will not be shown in the above window. The user must select the DAQ card's "Direct memory access (DMA)" channel by setting the jumper on the card. The "Direct memory access (DMA)" channel must not listed in the above window to prevent conflicts.

If Windows has no additional "Direct memory access (DMA)" channels available, you may need to remove some other devices to free the "Direct memory access (DMA)" resources. Or, the you must not use the DMA functions of the DAQ card.

## 3 PCI/ISA DAQ card with Win NT

Please follow the steps below to check the resources in Windows NT. If there is a conflict with the DAQ card you may need to remove the other device to prevent the conflict.

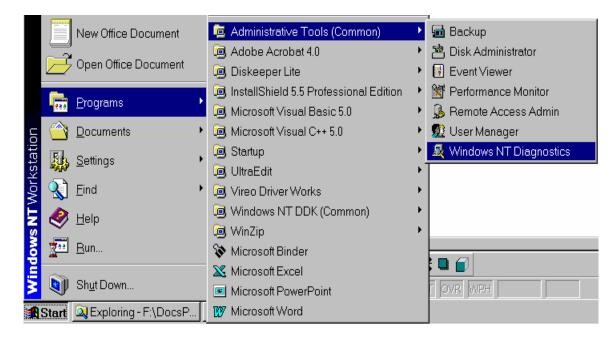


Figure 3-1. Click the "Start" button.

- Select the "Programs" menu item.
- Select the "Administrative Tools (Common)" menu item.
- Select the menu item "Windows NT Diagnostics".

Window le <u>H</u> elp	v <mark>s NT Diagnostics</mark>	- \\GARY			
Versi	ion System		Dri∨es onment	Memory	Services etwork
				Include HAL	. resources 🗖
IRQ 01 03 04 05 06 10 12 14 15	Device i8042prt Serial TMC12 Floppy DMX3194 i8042prt atapi atapi			BU 0 0 0 0 0 0 0 0	IS Type Isa Isa Pci Isa Pci Isa Isa Isa
	IRQ I/O P	or <u>t D</u> M	MA	Memory	De⊻ices
	<u>P</u> roperties	Befre	sh	Pri <u>n</u> t	ОК

Figure 3-2. Click the "Resources" page.

You should verify that the IRQ of the DAQ card does not conflict with any other device.

The IRQ of the ISA DAQ card will not be shown in the above window. The user must select the IRQ number of the ISA DAQ card by setting the jumper on the card. The IRQ number must not be listed in the above window to prevent conflicts.

If Windows NT has no additional IRQs to be used by the DAQ card, the user may need to unplug another device in order to free an IRQ. Otherwise, the user must not use the INTERRUPT or DMA functions.

<u>H</u> elp	Diagnostics -				
Version	System	Display	Drives	Memory	Services
Resou	irces	Envi	ironment	- N	etwork
				Include HAL	resources 🗖
Address	Device			Bus	Туре 🔺
0060 - 0060	i8042prt			0	Isa
0064-0064	i8042prt			0	lsa
0170-0177	atapi			0	lsa
01CE - 01CF	VgaSave			0	Pci
01F0-01F7	atapi			0	lsa
02F8-02FE	Serial			0	lsa
0376-0376	atapi			0	lsa
0378-037A	Parport			0	lsa
03B0-03BB	VgaSave			0	Pci
03C0-03CF	S3Inc			1	Pci
03C0-03DF	VgaSave			0	Pci
03D4-03DB	S3Inc			1	Pci
03F0-03F5	Floppy			0	lsa
03F6-03F6	atapi			0	lsa
03F7-03F7	Floppy			0	lsa 🔡
03F8-03FE	Serial			0	lsa
D800 - D8FF	DMX3194			0	Pci 🔄
Locm-oc_	TMC12			0	Pci 🗾
IRQ	1/0 Pa	rţ [		<u>M</u> emory	De⊻ices
	Properties	Refr	osh	Print [	ОК

Figure 3-3. Click the"I/O Port" button.

Verify that the I/O Port address of DAQ card does not conflict with any other device.

The I/O Port address of the ISA DAQ card will not be shown in the above window. The user must select the I/O Port address of the ISA DAQ card by setting the switch on the card. The I/O Port address must not be listed in the above window to prevent conflicts.

If Windows NT has no available I/O Port addresses to be used by the PCI/ISA DAQ card, you MUST unplug some other devices to free the I/O Port address resources.

<mark>月 E</mark> ile	indows N <u>H</u> elp	T Dia	gnostics -	\\GARY						×
	Version	) source	System   es	Display E	Drivi nvironmen		Memory	Netw	Services   /ork   sources	
	Chann	Port	Device					Bus	Туре	
	02	0	Floppy					0	Isa	
	<u>I</u> RQ		1/0 Pc	or <u>t</u>	DMA	<u> </u>	<u>/</u> emory		De <u>v</u> ices	
			<u>P</u> roperties	B	efresh		Pri <u>n</u> t		ОК	

Figure 3-4. Click the "DMA" button.

Verify that the DMA resources of the PCI/ISA DAQ card does not conflict with any other devices.

The DMA channel of the ISA DAQ card will not be shown in the above window. The user must select the DMA channel of the ISA DAQ card by setting the jumper on the card. Furthermore, the DMA channel must not listed in the above window to prevent conflicts.

If Windows NT has no additional DMA channels available for use by the DAQ card, you may need to remvove another device to free the DMA resources. Otherwise, the you must not use theDMA functions.

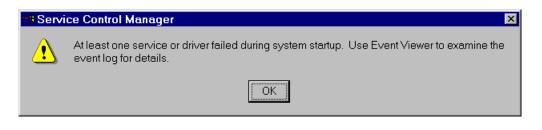


Figure 3-5. "Service Control Manager" window pops up when some services or drivers failed.

In this case, the user should check the Windows "Event Viewer" to determine the problem. Please follow the steps below.

		1				prie	ч	DVA
		New Office Document		🧧 Administrative Tools (Common)	•	📠 Back	kup	
				連 Adobe Acrobat 4.0	►	🖄 Disk	Administrator	
		Open Office Document		回 Diskeeper Lite	≁	📑 Ever	nt Viewer	
	<b></b>	Due environ		InstallShield 5.5 Professional Edition	►	🕅 Perfo	ormance Monif	tor
133	- <u>• • •</u>	<u>P</u> rograms	1	i Microsoft Visual Basic 5.0	►	🔒 Rem	ote Access Ac	dmin
Ę		<u>D</u> ocuments	►	連 Microsoft Visual C++ 5.0	►	👧 User	Manager	
atio	<b>R</b>	Settings	•	通 Startup	≁	💐 Wind	lows NT Diagi	nostics
kst		<u>o</u> eungs	Ĺ	📵 UltraEdit	►	pne	2	N/A
Workstation		<u>F</u> ind	۲	🥶 Vireo Driver Works	►	one	7000	N/A
Ê		<u>H</u> elp		Windows NT DDK (Common)	≁			
l s	$\leq$			📵 WinZip	≁			×
swopu	2	<u>R</u> un		😵 Microsoft Binder			1	
Ĕ	~			🔀 Microsoft Excel				
≥		Sh <u>u</u> t Down		Microsoft PowerPoint		F OVR N	NPH 🛛 💷	
<b>.</b>	Start	🔍 Exploring - F:\Projs\	Ι	😰 Microsoft Word		Res		

Figure 3-6. Click the "Start" button.

- Select the "Programs" menu item.
- Select the "Administrative Tools (Common)" menu item.
- Select the "Event Viewer" menu item.

Event Vie	wer - System L	.og on \\GARY	,			- 🗆 ×
Log ⊻iew	<u>O</u> ptions <u>H</u> elp					
Date	Time	Source	Category	Event	User	С
1 5/13/99	4:39:44 PM	Srv	None	2013	N/A	
5/13/99	4:34:42 PM	Service Contri	ol Mar None	7000	N/A	
13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
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5/13/99	4:34:39 PM	NPort	None	4	N/A	
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5/13/99	4:34:39 PM	NPort	None	4	N/A	
13/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	4	N/A	
5/13/99	4:34:39 PM	NPort	None	3	N/A	
3 5/13/99	4:34:39 PM	NPort	None	2	N/A	
5/13/99	4:34:39 PM	Service Contr	ol Mar None	7000	N/A	-

Figure 3-7. The "Event Viewer" window.

The user can double-click on the item to see detailed information.

vent Detai	I		×
Date:	5/13/99	Event ID:	7000
Time:	4:34:42 PM	Source:	Service Control Manager
<u>U</u> ser:	N/A	Туре:	Error
Computer:	GARY	Category:	None
<u>D</u> escriptio	n.		
	12 service failed to start due to		g error:
I ne syste	m cannot find the device spe	ciliea.	
J			<b>*</b>
D <u>a</u> ta: ©	) <u>B</u> ytes – O <u>W</u> ords		
			A
			<b>T</b>
<b>T</b>			
C	ose <u>P</u> revious	<u>N</u> ext	<u>H</u> elp
	Figure 3-8. The	"Even	t Dotail"

The Description area shows a description of the event that occurred.

## 4 PCI/ISA DAQ card with Win 2000

Follow the steps below to check the resources on Windows 2000. If the DAQ card has conflicts, the user may need to free resources by removing another device.



Figure 4-1. Open "Computer Management".

- Right-Click the icon "My Computer".
- Select the "Manage" menu item.
- "Computer Management" will popup, refer to figure 4-2.

📮 Computer Management		
] Action ⊻lew Iools   ← →   🗈 🖪	• 🗗 🖨 🛛	) 🖳 😰 🗍 🖬 🛩 🗊 敏
Tree	IRQ Num	Device
Computer Management (Local)  Computer Management (Local)  System Tools  System Tools  System Information  System Summary  System Summary  System Summary  System Summary  System Summary  System Conflicts/Sharing  DMA  Conflicts/Sharing  DMA  Conflicts/Sharing  DMA  Conflicts/Sharing  Conflicts/Shar	14 15 10 11 0 1 4 3 6 8 13 12	Primary IDE Channel Secondary IDE Channel Intel 82371AB/EB PCI to US <b>PIO Series Card</b> Realtek RTL8029(AS) PCI Et System timer PC/AT Enhanced PS/2 Keyb Communications Port (COM1) Communications Port (COM2) Standard floppy disk controller System CMOS/real time clock Numeric data processor Logitech PS/2 Port Mouse

Figure 4-2. The "IRQs" resources under "Computer Management".

Select the "IRQs" resources under "<u>Computer Management (Local)</u> / <u>System Tools</u> / <u>System Information</u> / <u>Hardware Resources</u> / <u>IRQs</u>".

Verify that the IRQ of the DAQ card does not conflict with any other device.

The IRQ of the ISA DAQ card will not be shown in the above window. You must select the IRQ number of the ISA DAQ card by setting the jumper on the card. Furthermore, the IRQ number must not listed in the above window to prevent conflicts.

If Windows 2000 has no additional IRQs to be used by the PCI/ISA DAQ card, the user may need to remove another device to free the IRQ resources. Otherwise, the user must not use the INTERRUPT and DMA functions.

Action View Iools   ← →   🗈 🛙	I 🚿 🖨 🖸 🖳 😭 🗍 🖬 🚔 📦 🔌	
ree	Address Range Device	Stat
Computer Management (Local)  System Tools  Event Viewer  System Information  Gystem Summary  Hardware Resources  Conflicts/Sharing  DMA	0x0A79-0x0A ISAPNP Read Data Port 0x0279-0x02 ISAPNP Read Data Port 0x0274-0x02 ISAPNP Read Data Port 0xF000-0xF00F Intel(r) 82371AB/EB PCI Bus 0x01F0-0x01 Primary IDE Channel 0x03F6-0x03 Primary IDE Channel 0x0170-0x01 Secondary IDE Channel 0x0376-0x03 Secondary IDE Channel 0x0376-0x03 Secondary IDE Channel 0xE000-0xE0 Intel 82371AB/EB PCI to US	
Forced Hardware     Forced Hardware     I/0     IRQs     Omponents     Software Environment     Internet Explorer 5     Performance Logs and Alerts     Shared Folders     Shared Folders     Device Manager     Could Users and Groups	0xE400-0xE4       Realtek RTL8029(AS) PCI Et         0xE800-0xE8       PIO Series Card         0x0020-0x00       Programmable interrupt con         0x0040-0x00       Programmable interrupt con         0x0000-0x00       Direct memory access contr         0x00081-0x00       Direct memory access contr         0x0087-0x00       Direct memory access contr         0x0088-0x00       Direct memory access contr         0x0089-0x00       Direct memory access contr         0x0089-0x00       Direct memory access contr         0x0008F-0x00       Direct memory access contr         0x0008F-0x00       Direct memory access contr         0x0008F-0x00       Direct memory access contr         0x00060-0x00       Direct memory access contr         0x0060-0x00       PC/AT Enhanced PS/2 Keyb         0x0064-0x00       PC/AT Enhanced PS/2 Keyb	ок ок ок ок ок ок ок ок ок ок ок ок ок о

Figure 4-3. The "I/O" resources under "Computer Management".

Select the "I/O" resources under "<u>Computer Management (Local)</u> / <u>System Tools</u> / <u>System Information</u> / <u>Hardware Resources</u> / <u>I/O</u>".

Verify that the I/O Port address of the PCI/ISA DAQ does not conflict with any other device.

The I/O Port address of the ISA DAQ card will not be shown in the above window. The user must select the I/O Port address of the ISA DAQ card by setting the switch on the card. Furthermore, the I/O Port address must not listed in the above window to prevent conflicts.

If Windows 2000 has no additional I/O Port addresses available for use by the PCI/ISA DAQ card, the user MUST remove another device to free I/O Port addresses.

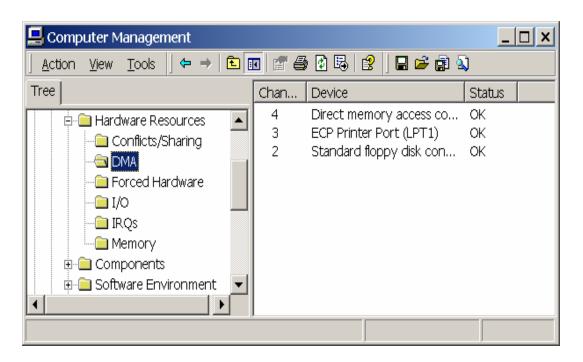


Figure 4-4. The "DMA" resources under "Computer Management".

Select the "DMA" resources under "<u>Computer Management (Local)</u> / <u>System Tools</u> / <u>System Information</u> / <u>Hardware Resources</u> / <u>DMA</u>".

Verify that the DMA channel of the PCI/ISA DAQ card does not conflict with any other device.

The DMA channel of the ISA DAQ card will not be shown in the above window. The user must select the DMA channel of the ISA DAQ card by setting the jumper on the card. Furthermore, the DMA channel must not listed in the above window to prevent conflicts.

If Windows 2000 has no additional DMA channels available for use by the PCI/ISA DAQ card, the user may need to remove some other devices to free DMA resources. Otherwise, the user must not use theDMA functions. You may need to check the "Event Viewer" of Windows 2000 if a service or driver fails. Please see the following figures to view detailed information.

Action       ¥e       Image: Bar and	🖵 Computer Management				_	<u> </u>	
Computer Management (Local)   System Tools   Papelication   Application   Security   System   Software Environment   System   System   System   System   System   Software Environment   System   <	<u>A</u> ction <u>V</u> iew   ← →   🗈 📧 😰 😳 🚱 😫						
<ul> <li>Computer Management (200a)</li> <li>System Tools</li> <li>Application</li> <li>Security</li> <li>Security</li> <li>System</li> <li>System</li> <li>System</li> <li>System Information</li> <li>System Summary</li> <li>Hardware Resources</li> <li>Components</li> <li>Software Environment</li> <li>Software Environment</li> <li>Internet Explorer 5</li> <li>Performance Logs and Alerts</li> <li>Component Logs and Alerts</li> </ul>	Tree	Туре	Date	Time	Source	Cate 🔺	
	System Tools         Image: Event Viewer         Image: Application         Image: Security         Image: System         Image: System <t< td=""><td>Warning Construction Warning Firror Information Construction Firror Information Firror Information Firror Information Firror Information Firror Information Firror Information Firror Information Information Information Information Information Information</td><td>2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/21/2000 2/21/2000 2/21/2000 2/21/2000</td><td>1:23:4 1:23:1 1:23:1 1:23:2 1:21:5 1:13:1 1:10:1 1:10:1 1:10:2 6:49:0 6:33:4 6:31:2 6:31:2</td><td>NetBT eventlog eventlog Service Control Ma eventlog NetBT eventlog Service Control Ma eventlog NetBT eventlog eventlog eventlog</td><td>None None None None None None None None</td></t<>	Warning Construction Warning Firror Information Construction Firror Information Firror Information Firror Information Firror Information Firror Information Firror Information Firror Information Information Information Information Information Information	2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/22/2000 2/21/2000 2/21/2000 2/21/2000 2/21/2000	1:23:4 1:23:1 1:23:1 1:23:2 1:21:5 1:13:1 1:10:1 1:10:1 1:10:2 6:49:0 6:33:4 6:31:2 6:31:2	NetBT eventlog eventlog Service Control Ma eventlog NetBT eventlog Service Control Ma eventlog NetBT eventlog eventlog eventlog	None None None None None None None None	

Figure 4-5. The "Event Viewer" under "Computer Management".

Select the "Event Viewer" under "<u>Computer Management (Local)</u> / <u>System Tools</u> / <u>Event Viewer</u> / <u>System</u>".

The user can double-click on the item to see detailed information. Please refer to figure 4-6.

Event Proper	ties					<u>?</u> ×
Event						
Date: Time: Type: <u>U</u> ser: <u>C</u> omputer:	2/22/2000 13:23 Error N/A GARY	Source: Category: Event ID:	Service None 7000	Control Manag	jer	<ul> <li>↑</li> <li>↓</li> <li>□</li> </ul>
<u>D</u> escription	:					
The servic no enablec	service failed to e cannot be sta devices asso Bytes C Wor	urted, either k ciated with it	pecause	it is disabled or	'becaus	e it has
						* *
			)K	Cancel		Apply

Figure 4-6. The "Event Properties" window

The Description message field provides information about the problem.

As shown below, the device manager can also be used to view the computer's resources.

iree	Name	Description	Туре	State	Status -
Computer Management (Local)	nwinkfwd	IPX Traffic Forwarde	Kernel Driver	Stopped	OK
	parallel	Parallel class driver	Kernel Driver	Running	OK
📲 System Tools	parport	Parallel port driver	Kernel Driver	Running	OK
Event Viewer	partmgr	PartMgr	Kernel Driver	Running	OK
E-System Information	parvdm	ParVdm	Kernel Driver	Running	OK
- 🔁 System Summary	pci	PCI Bus Driver	Kernel Driver	Running	OK
Hardware Resources	pcidump	PCIDump	Kernel Driver	Stopped	OK
🗄 🚞 Components 📃	pclide	PCIIde	Kernel Driver	Stopped	OK
🖻 🧰 Software Environment	pemeia	Pcmcia	Kernel Driver	Stopped	OK
- Drivers	pio	PIO Driver	Kernel Driver	Running	OK
Environment Variables	piso	PISO	Kernel Driver	Stopped	OK
	pptpmi	WAN Miniport (PPTP)	Kernel Driver	Running	OK T
	ptilink	Direct Parallel Link D	Kernel Driver	Running	OK
- Network Connections	q11080	q11080	Kernel Driver	Stopped	OK
- 🔁 Running Tasks	ql10wnt	QI10wnt	Kernel Driver	Stopped	OK
- 🔁 Loaded Modules 🛛 🔻	d1240	d1240	Kernel Driver	Stopped	OK _

Figure 4-7. Select "Drivers" under "<u>Computer Management (Local)</u> / <u>System Tools</u> / <u>System Information</u> / <u>Software Environment</u> / <u>Drivers</u>".



Figure 4-8. Select "Device Manager" under "<u>Computer Management</u> (Local) / <u>System Tools</u> / <u>Device Manager</u>".

Double click on the item to show the detailed information.

PIO Series Ca	rd Properties	
General	Driver   Resources	
· Pr	PIO Series Card	
	Device type: Location:	Other devices Location 4 (PCI bus 0, device 15, function 0)
This o	e status device is working proj are having problems publeshooter.	perly. with this device, click Troubleshooter to start
		Troubleshooter
Device (		
Use this	s de∨ice (enable)	
		OK Cancel

Figure 4-9. General information.

PIO Series Card Propert	ies			?	×
General Driver Resour	ces				
PIO Series Ca Besource settings:	ard				
Resource type	Setting E800 - E8FF EC000000 - EC000FFF 10				
Setting <u>b</u> ased on: Cu	ment configuration			*	
	Jse automatic settings	[	Chan	ge Setting	
Conflicting device list				*	
		0	ж	Cancel	Ī

Figure 4-10. Resources

## WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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## **RETURN REQUESTS/INQUIRIES**

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order number under which the product was PURCHASED,
- 2. Model and serial number of the product under warranty, and
- 3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order number to cover the COST of the repair,
- 2. Model and serial number of the product, and
- 3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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