

# **Bus Mastering** PCI Fast SCSI-2 & 3 Adapter

## Introduction

The DC-390 Series consists of 4 new Bus Mastering PCI SCSI adapters for the PCI local bus, which comply to PCI specification 2.1 for full Plug & Play readiness.

Most SCSI Adapters require device drivers to support more than 2 hard drives under DOS. The DC-390, however, provides special support to handle up to eight devices, including fixed



By using the **Disconnect/Reconnect** technique, performance degradation during multitasking operations is prevented. Other enhanced SCSI-2 features such as scatter-

Model #

DC-390

DC-390W

gather and command-tag queuing are supported.

The DC-390 Series adapters support ASPI

DC-390U Managers for DOS, DC-390F Windows, OS/2 and NetWare and assure can be 8-bit devices operation with popular

third party applications. Device drivers are also supported for the following major operating systems for compatibility with a full range of SCSI peripherals including CD-ROMs, Photo CDs, tape backups, scanners, removable media and SCSI hard drives:

- MS-DOS
- Windows NT.
- OS/2 2.0/WARP 3.0 NetWare 3,x/4,x
- Windows 95
- Windows 3.x(&WFWG)
- SCO Unix 3.2v4.x/5.0

SCSI-2 or 3

SCSI-2

SCSI-2

SCSI-3

SCSI-3

**SCSI Width** 

8-bit

16-bit

8-bit

16-bit

■ UnixWare 1.1

disks and removable media under MS-DOS 5.0/6.x, without the need for device drivers (More than 2 drives support).

**Max Xfers** Max Xfer Rate **Max Devices** (MXfer/S) (MB/S) 10 10 7 10 20 15\* 20 20 20 40 15\* \*: up to fifteen 16-bit and/or 8-bit single-ended SCSI devices & up to seven of these

The on-board menudriven setup program and jumperless design of the DC-390 allow you to configure the host adapter, SCSI devices. and BIOS-related parameters without opening your computer.

The DC-390 also provides a utility program that supports lowlevel formatting. And with the help of the DC-390's installation software, the drivers are easily installed and update the CONFIG.SYS and AUTOEXEC.BAT files automatically.

The fully intelligent solution provided is ideal for multitasking environments such as OS/2, NetWare, Unix and Windows NT, as well as next generation operating systems such as Microsoft Windows 95.

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### **Enhanced Features**

- PCI 2.1 compliant with full Plug & Play readiness
- High speed 32-bit PCI bus master DMA transfers of up to 133MB/sec in burst mode
- Models DC-390 and DC-390W support Fast SCSI-2 protocol. Fast SCSI-3 protocol is supported by models DC-390F and DC-390U
- Level triggering allows interrupt sharing between muliple adapters
- Coexists with other SCSI, ESDI, or IDE adapters
- Support is provided for up to 8 drives (DC-390/390U) or 15 drives (DC-390W/390F under DOS 5.0/6.x without the need for device drivers
- User friendly PCI Configuration Utility for quick and easy adapter installation and system configuration

#### **Technical**

SCSI Engine: AMD Am53C974A (DC-390)

SYMBIOS 53C825A (DC-390W) SYMBIOS 53C875 (DC-390F/U)

Max SCSI Adapters Installable: 4

#### **Functional**

- Enhanced SCSI I/O protocol: Multi-threaded and Multi-tasking support, and Scatter/Gather data transfer support
- Controller BIOS supported menu-driven setup utility for easy SCSI installation without opening your cabinet:

Set Adapter Ontions

Adapter SCSI ID	SCSI ID 7	Default
Greater than 1G support	Enabled	Default
More than 2 drives support	Enabled	Default
Removable media as BIOS device	Disabled	Default
Immediate return on SEEK command	Disabled	Default
Scan all LUN for devices	Disabled	Default
Active Negation	Enabled	- Default
Power on RESET SCSI Bus	Enabled	Default
Delay before BIOS scans device	3 sec	Default
Max number of tagged commands	32	Default
SCSI Terminator	Auto	Default

• Further advanced options on each device can be set by choosing the line "Select Devices Options":

SCSI ID			#0	#1	#2	<b>#</b> 3	#4	<b>#</b> 5	#6	<b>#</b> 7
Parity	Checking		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Allo⊌ D	isconnec	tion	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Send ST	art unit	Connand	NO	NO	NO	NO	NO	NO	MO	MD
Tagged	Connand I	Queuing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Synchro	nous Nega	otiation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Sym	c Xfer R	ate	10.0	19 0	10.0	10.0	10.0	10.0	10.0	10.0
SCSI ID	Mor	del		De	evice	Туре		Caj	pacit	,
0	DEC	DSP3107	LS	F	ixed (	lisk		1	921 M	_
1	MAXTOR	LXT-299	S	P:	ixed (	lisk		:	191 M	
2	RICOH	RO-3010	E	01	ptica:	l dísl	k	:	121 H	
3	NEC	CD-ROM :	DRIVE: 84	ł Ci	D-ROM					
4	ARCHIVE	VIPER 1	50 2153	31 Ta	ape di	rive				
5					_					
6	WANGTEK	5525 <b>E</b> S	SCSI M74	lH Te	ape di	rive				
7					-					

Easy installation software updates the CONFIG.SYS
 & AUTOEXEC.BAT files automatically

### **Device Drivers**

- ASPI driver for DOS:
  - ASPI manager and supporting drivers included
- NetWare V3.11/3.12/SFT-III/4.0x/4.1: ASPI manager and supporting drivers included
- MS-Windows and Windows for WorkGroups 3.x:
  ASPI manager & 32-Bit Disk Access supported
- OS/2 2.x/WARP 3.0:

ASPI manager and supporting drivers included

- Windows NT 3.x
- Windows 95
- SCO Unix 3.2v4.x & SCO Open Server 5.0
- UnixWare v1.1

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