

## The Retro Web S1366 PCI Local Bus Enhanced IDE and Fast I/O Controller User Manual

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## The Retro Web S1366 PCI Local Bus Enhanced IDE and Fast I/O Controller

### USER MANUAL

MODEL: S1366

S1366 Enhanced PCIIDE & Fast I/O Controller is industry's first single card solution supporting all I/O functions for your high performance PCI systems.

**S1366 Enhanced PCI with Fast I/O has following features:**

Dual IDE channel for disk drives and ATAPI IDE CD-ROM/Tape Mode 4 IDE supporting up to 16.7 MB/second data transfer rate

- Two floppy ports for four floppy drives
- Ultra10 high speed SCSI6550 compatible serial ports
- One versatile AT PRNIPS2/EPPIECP parallel port
- One game port
- IDE Toolkit utility software

S1366 PCI IDE & I/O controller; with the most innovated "T" \ paddle card, gives your customers the benefits of:

### **One more precious expansion slot**

Lower cost than that of current two-card IDE and I/O solution (User-friendlier than the two-card IDE and I/O solution)

### **IDE ToolKit Features**

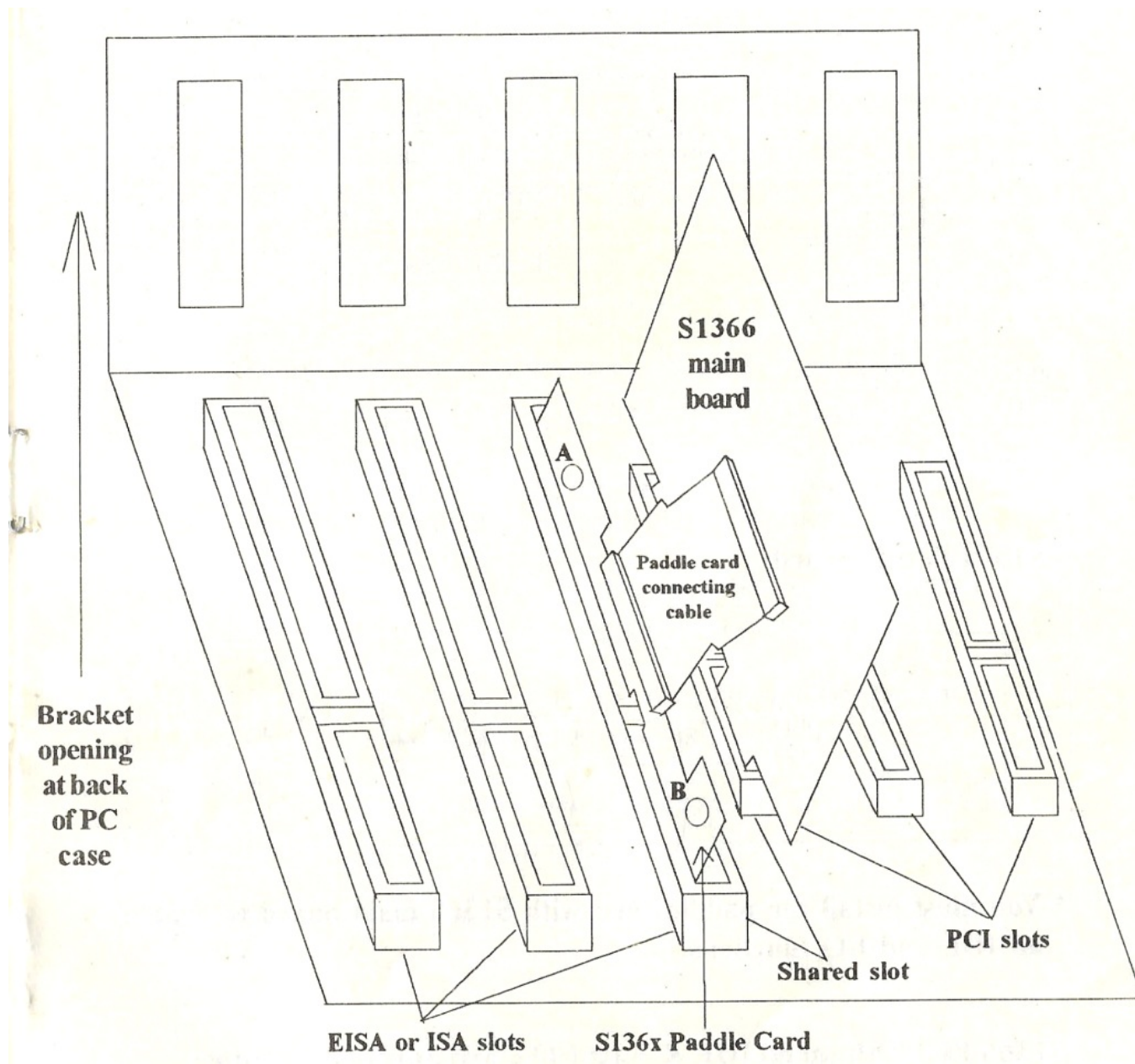
**SpeedIDE:** a custom performance tuning utility that allows you to squeeze the maximum I/O throughput out of your motherboard and drives. Transfer rate speed gains of over 100% may be attained with certain drives.

**ViewIDE:** a utility for displaying information about the devices attached to your S 1366. View IDE displays the characteristics of your IDE drives, and allows you to examine their capabilities. The DOS driver must be loaded in order to run ViewIDE.

**Check IDE:** a utility for probing the configuration of your S 1366 and finding out the geometries of your IDE drives.

**Disk Prep:** a disk preparation utility which performs the functions of FDISK and more. DiskPrep allows you to add/delete partitions, low level format your drives, set the active partition, etc. You may use FDISK if you prefer.

### **Correct S1366 Main Board & Paddle Card (required) Installation Layout Example**



A, B are large holes on paddle card. They are used for, (1) easy to unseat paddle card with hand and fingers; (2) holding paddle card with spacer bar against breaking loose from the slot

### Packaging Checklist

- S 13 66 main board
- S 136x paddle card and 3" cable
- IDE cable (3 heads 19" long)
- FDD cable (5 heads 24" long)
- COM2/Game bracket/connectors/cable assembly
- One software drivers diskette
- User's manual

### S 13(,6 PCI Enhanced IDE & Fast I/O Main board





<b>J4</b>	<b>J3</b>	<b>Access IDE channels' I/O address</b>
Open	Closed	Enable both PCI IDE channels (default)
Closed	Open	Disable both PCI IDE channels

<b>J2</b>	Open	Relocatable I/O address
	Closed	Fixed I/O address (default)

<b>J7</b>	Open	No secondary IDE channel legacy IRQ to ISA IRQ15
	Closed	Secondary IDE channel legacy IRQ to ISA IRQ15 (default)

<b>J5</b>	Open	No primary IDE channel legacy IRQ to ISA IRQ14
	Closed	Primary IDE channel legacy IRQ to ISA IRQ14 (default)

<b>J8</b>	Open	No buffered secondary IDE legacy IRQ to IRQ15 (default)
	Closed	Buffered secondary IDE legacy IRQ to ISA IRQ15

<b>J6</b>	Open	No buffered primary IDE legacy IRQ to IRQ14 (default)
	Closed	Buffered primary IDE legacy IRQ to ISA IRQ14

<b>J12</b>	Open	No inverted secondary IDE IRQ to PCI bus INTB# (default)
<b>J13</b>	Closed	Inverted secondary IDE IRQ to PCI bus INTB#

<b>T12</b>	Open	No inverted primary IDE IRQ to PCI bus INTA# (default)
<b>T13</b>	Closed	Inverted primary IDE IRQ to PCI bus INTA#

<b>J9</b>	Open	Native mode IDE IRQ not used (default)
	Closed	Native mode IDE IRQs to PCI INTA

<b>J1</b>	Open	FDD DSKCHG signal not intercepted (default)
	Closed	Enable FDD DSKCHG signal being intercepted

## Floppy Disk Drive (FDD) Control (support two channels & 2.88MB/s)

<b>P3</b>	1-2	FDC Disable
	2-3	FDC Enable (default)

<b>P2</b>	1-2	Use I/O Address (370) for FDC
	2-3	Use I/O Address (3F0) for FDC (default)



<b>P1</b>	1-2	Media ID input in OS2 Enhanced Floppy mode
	2-3	Normal FDD DRATE out mode (default)

<b>J11</b>	Open	ISA AT printer port mode (default)
	Closed	Normal mode, FDD pin29 to GND

<b>T1</b>	Open	ISA AT printer port mode (default)
	Closed	PS2 bidirection compatible mode

### Parallel Port Control (supports all four PRN/PS2/ECP/EPP modes)

<b>P9</b>	<b>P8</b>	<b>Printer Port I/O Address Assignment</b>
1-2	1-2	Parallel Port 3 (3BC-3BE)
1-2	2-3	Parallel Port 2 (278-27F)
2-3	1-2	Disable Parallel Port
2-3	2-3	Parallel Port 1 (378-37F) (default)

<b>T2</b>	Open	No Interrupt 7 for Parallel Port
	Closed	Interrupt 7 for Parallel Port (default)

### Serial Port Control (supports two NS16550 compatible fast FIFO serial ports)

<b>P5</b>	<b>P4</b>	<b>Serial Port 1 I/O Address Select</b>
1-2	1-2	Disable Serial Port 1
1-2	2-3	COM2 at Address 2F8
2-3	1-2	COM3 at Address 3E8
2-3	2-3	COM1 at Address 3F8 (default)

<b>T4</b>	Open	No Interrupt for Serial Port 1
	Closed	INT4 for Serial Port 1 (default)

<b>P7</b>	<b>P6</b>	<b>Serial Port 2 I/O Address Select</b>
1-2	1-2	Disable Serial Port 2
1-2	2-3	COM1 at Address 3F8
2-3	1-2	COM4 at Address 2E8
2-3	2-3	COM2 at Address 2F8 (default)

<b>T5</b>	Open	No Interrupt for Serial Port 2
	Closed	INT5 for Serial Port 2 (default)

	Closed	LN15 for Serial Port 2 (default)
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## Game Port Control (single channel only)

T6	Open	Game Port Disable
	Closed	Game Port Enabled (default)



<b>T3</b>	<b>T2</b>	<b>Parallel Port Interrupt</b>
Open	Open	no INT
Close	Open	INT 5
Open	Closed	INT 7 (default)

\* Either serial port or parallel port may use INT5.

## Enhanced Parallel Port Control for EPP/ECP Applications

<b>P11</b>	<b>P10</b>	<b>Parallel Port Mode</b>
1-2	1-2	ECP + EPP + PRN modes
1-2	2-3	ECP + PRN modes
2-3	1-2	EPP + PRN modes
2-3	2-3	PRN printer port mode only (default)

<b>T11</b>	<b>T8</b>	<b>T10</b>	<b>T7</b>	<b>T9</b>	<b>ECP Mode Jumper Setting</b>
Closed	Closed	Closed	Open	Open	In ECP Mode Use DMA3 (preferred)
Closed	Open	Open	Closed	Closed	In ECP Mode Use DMA 1
Open	Open	Open	Open	Open	Non ECP Mode (default)

## Advanced Interrupt Select for Serial Ports

<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>Serial Port 1 COM 1/2/3</b>	<b>Serial Port 2 COM 2/1/4</b>
Open	Closed	Closed	INT 4 (default)	INT 3 (default)
Open	Closed	Open	INT 4	no INT 3
Open	Open	Closed	no INT 4	INT 3
Open	T4 Pin1 to T5 Pin1 T4 Pin2 to T5 Pin2		INT 3	INT 4
Open	T4 Pin1 to T5 Pin1 Only		INT 5	INT 3
Open	T4 Pin2 to T5 Pin2 Only		no INT 3	INT 4
T3 Pin2 to T4 Pin2 Only		Closed	INT 4	INT 5
T3 Pin2 to T4 Pin2 Only		Open	no INT 4	INT 5

### IDE Driver Utilities:

Following are a list of current available drivers with S 1366 PCI IDE

- DOS/Windows 3.1/WFW 3.1x FastDisk drivers
- Netware 3.1x, 4.x drivers



- OS/2 2.x driver
- Window NT driver
- SCO Unix 3.2.4.x driver

Please, read the README files to get more detailed information before – install drivers.?

## IDE Software Installation:

Insert driver diskette into drive A and type: A:INSTALL. The QuickIDE utility will guide you through the installation process step by step? it also modify your CONFIG.SYS in the root directory.

## Drivers Installation:

### Four FDD driver:

A driver S I366F4.COM is provided to enable SI366 accessing 4 FDD.  
Please read README.FDC for installation instruction .

### . DOS driver:

QuickIDE will automatically inst:'111 all required drivers to speed HD file transfer, to access 2nd channel IDE HD. To use 2nd IDE channel for ATAPI IDE CD-ROM or Tape drive, please use special drivers supplied by device's vendors.

### • Windows 3.1 FastDisk Driver:

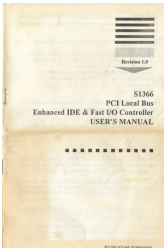
QuickIDE will install the FastDisk driver into Windows' system directory.  
This driver runs in protected mode and implements I/O queuing . It will speed up your Windows applications also requires more than 2MB of system 1memory to implement.

## NetWare 3.1 x, 4.x Driver:

During the installation ofNetWare, you will be prompted to insert the CMD drivers diskette into the drive and specify the search path. 10/9/94

Infonnation presented in this publication has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this document is subject to change without notice.

## Documents / Resources

	<p><a href="#">The Retro Web S1366 PCI Local Bus Enhanced IDE and Fast I/O Controller</a> [pdf] User Manual</p> <p>S1366 PCI Local Bus Enhanced IDE and Fast I O Controller, S1366, PCI Local Bus Enhanced I DE and Fast I O Controller, Local Bus Enhanced IDE and Fast I O Controller, Bus Enhanced ID E and Fast I O Controller, Enhanced IDE and Fast I O Controller, IDE and Fast I O Controller, Fa st I O Controller, I O Controller, Controller</p>
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## References

- [User Manual](#)

