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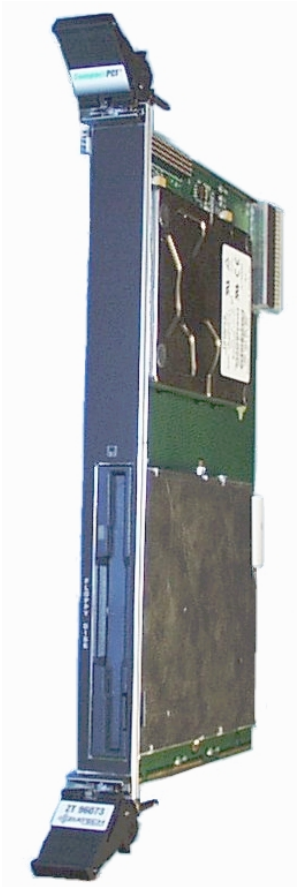
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ZT 96073



I/O Expansion Board

ZIATECH CORPORATION

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WHAT'S IN THIS MANUAL

This manual describes the operation and use of the ZT 96073 I/O Expansion Board. The following summarizes the focus of each major section in this manual.

Chapter 1, "Introduction," introduces the key features of the ZT 96073. It includes a product definition, a list of product features, a functional block diagram, and a brief description of each block. This chapter is useful to those requiring rear-panel access to the SBC's I/O functions.

Chapter 2, "Configuration," describes the ZT 96073's registers, jumpers, and cuttable traces. This chapter details factory default settings as well as information to tailor your board to a specific application.

Chapter 3, "Specifications," contains the electrical, environmental, and mechanical specifications for the ZT 96073 I/O Expansion Board. It also provides an illustration of connector locations and tables of the connector pin assignments.

Appendix A, "Customer Support," offers a product revision history, technical assistance and warranty information, and the necessary information should you need to return your ZT 96073 for repair.

1. INTRODUCTION

This chapter provides a brief introduction to the ZT 96073 I/O Expansion (IOX) board. It includes a product definition, a list of product features, a "ZT 96073 Faceplate" figure, a functional block diagram, and a description of each block.

See Chapter 2, "Configuration," for configuration details and Chapter 3, "Specifications," for complete power and temperature requirements, as well as connector locations, descriptions, and pinout tables.

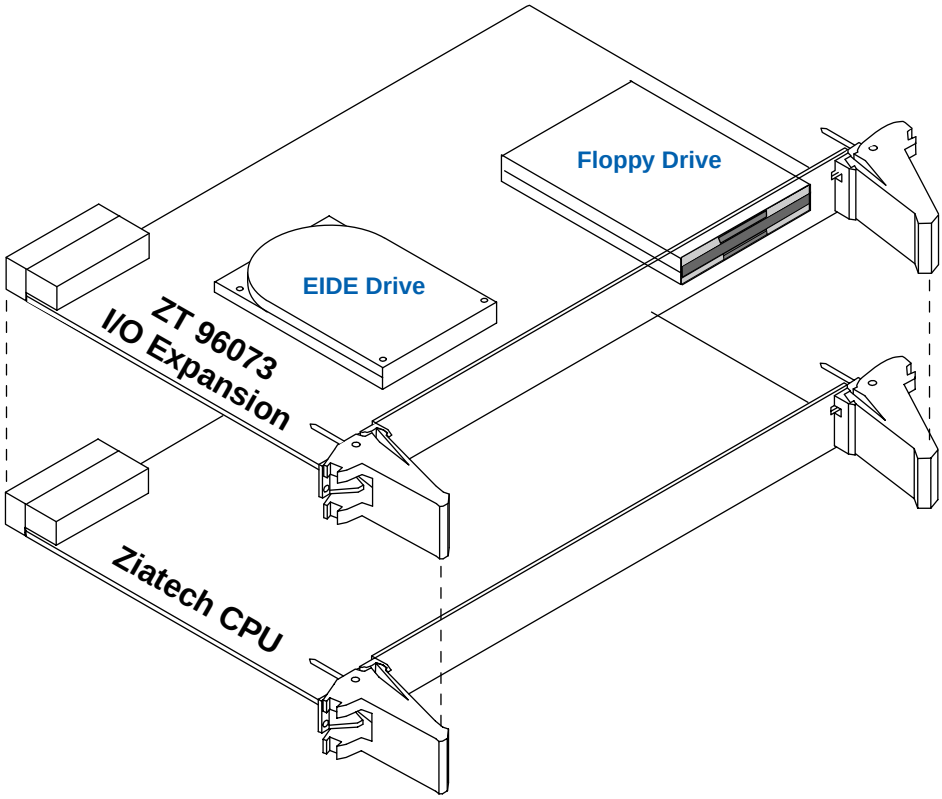
PRODUCT DEFINITION

The ZT 96073 is an I/O carrier board featuring a floppy and an EIDE drive, providing media expansion capability to several Ziatech CPU boards. Depending on your system configuration, rear-panel access to drives mounted on the ZT 96073 may be provided by a rear-panel transition board (such as the ZT 4802). The ZT 96073's I/O expansion possibilities are illustrated in the "ZT 96073 Expansion Options" figure.

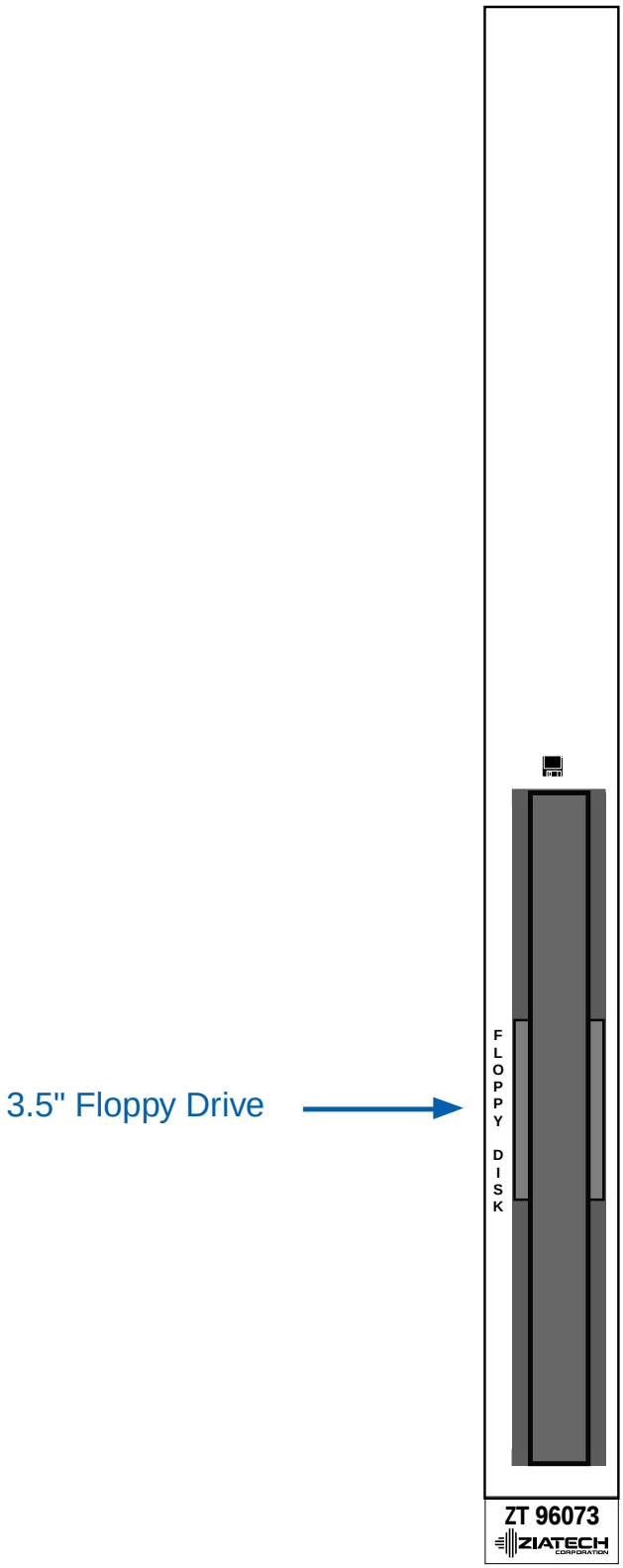
FEATURES OF THE ZT 96073 IOX BOARD

The key features of the ZT 96073 are listed below.

- 32-bit, 33 MHz, high performance PCI bus interface.
- EIDE interface (primary) for a 2.5 inch hard disk drive. 16.7 Mbytes/sec maximum IDE transfer rate.
- Front-panel floppy interface. CPU's floppy signals also routed out J5 for use by an RPIO board.
- Carries SVGA from the CPU to a rear-panel user I/O connector.
- Five-year warranty.



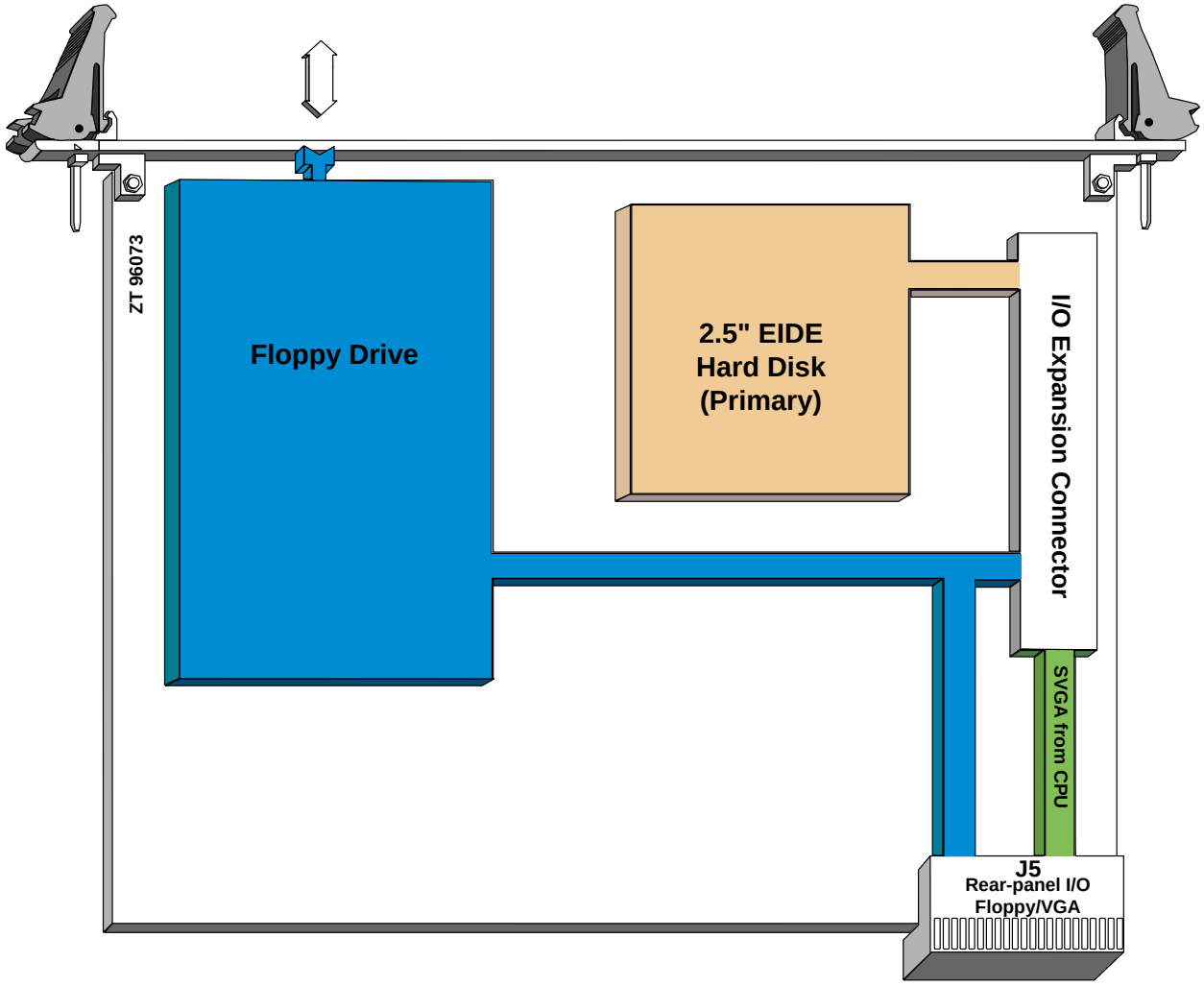
ZT 96073 Expansion Options



ZT 96073 Faceplate

FUNCTIONAL BLOCKS

Below is a functional block diagram of the ZT 96073. The following topics provide overviews of the ZT 96073's functional blocks.



ZT 96073 Functional Block Diagram

Rear-Panel I/O

The ZT 96073 directs floppy and VGA signals out the rear of the board (through backplane connector J5) for use by an RPIO board (such as the ZT 4802). VGA signals originate from a video adapter that may be mounted on the CPU.

EIDE Interface

The ZT 96073 provides an interface (J7) for a 2.5 inch Enhanced IDE hard drive. The primary IDE channel is directed from the CPU through the ZT 96073's I/O Expansion Connector J6 (described below). The drive supports Enhanced IDE transfer modes and is AUTO configurable within the BIOS Setup utility.

Floppy Interface

The ZT 96073's 26-pin flex cable floppy connector (J8) and a mounting location are provided to support a floppy drive. The CPU's floppy signals are directed to the ZT 96073 through I/O Expansion Connector (J6) and also transitioned out J5 for use by a RPIO Transition Board such as the ZT 4802.

I/O Expansion Connector

The ZT 96073's 100-pin, 2 mm, stacking I/O Expansion Connector (J6) carries signals from the CPU's floppy controller, secondary IDE channel, and optional video adapter. Floppy and video signals can be transitioned out J5 for use by a RPIO Transition Board such as the ZT 4802.

2. CONFIGURATION

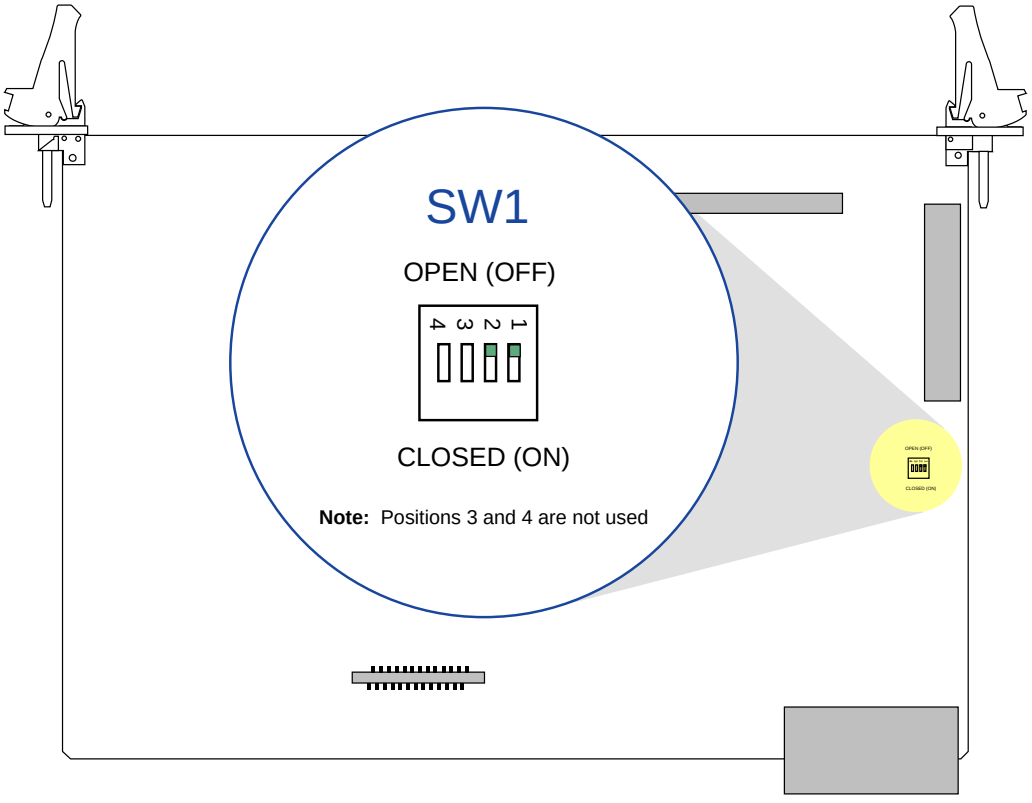
The ZT 96073 IOX Board is user configurable to meet the requirements of specific applications. Most configuration options are selected through switch settings or by installing or removing cuttable traces. Switch options are made by closing or opening the desired switch. Cuttable trace options are made by installing and removing surface mount zero Ω (0603 or 1206 size) resistors.

In most cases, the default settings are appropriate for normal operation. However, some applications may require different settings.

This chapter describes switch and cuttable trace options on the ZT 96073, including illustrations showing switch and cuttable trace locations.

SWITCH OPTIONS AND LOCATION

The ZT 96073 implements a four-position DIP switch bank (SW1), shown in the "ZT 96073 Switch Location" figure. SW1-4 and -3 positions have no function on the current release of the board. The following topics provide a detailed description of each available SW1 option. A dagger (†) indicates the default switch configuration.



ZT 96073 Switch Location

SW1-1, SW1-2 (Video Enable and Interface Select)

The boards in your system are factory configured to ensure proper operation. Configurations other than those detailed in the table below may damage the boards and are not recommended.

The Video interface is enabled and selected through a combination of **hardware** (switches on the IOX board) and **software** (the System Register Video/Keyboard Enable bit on the CPU board) settings.

Front- and rear-panel video interfaces are selected through switch and register bit configuration according to the table and "Video Interface Configuration" illustration below. **SW1-2 must be open for software to control rear-panel video.**

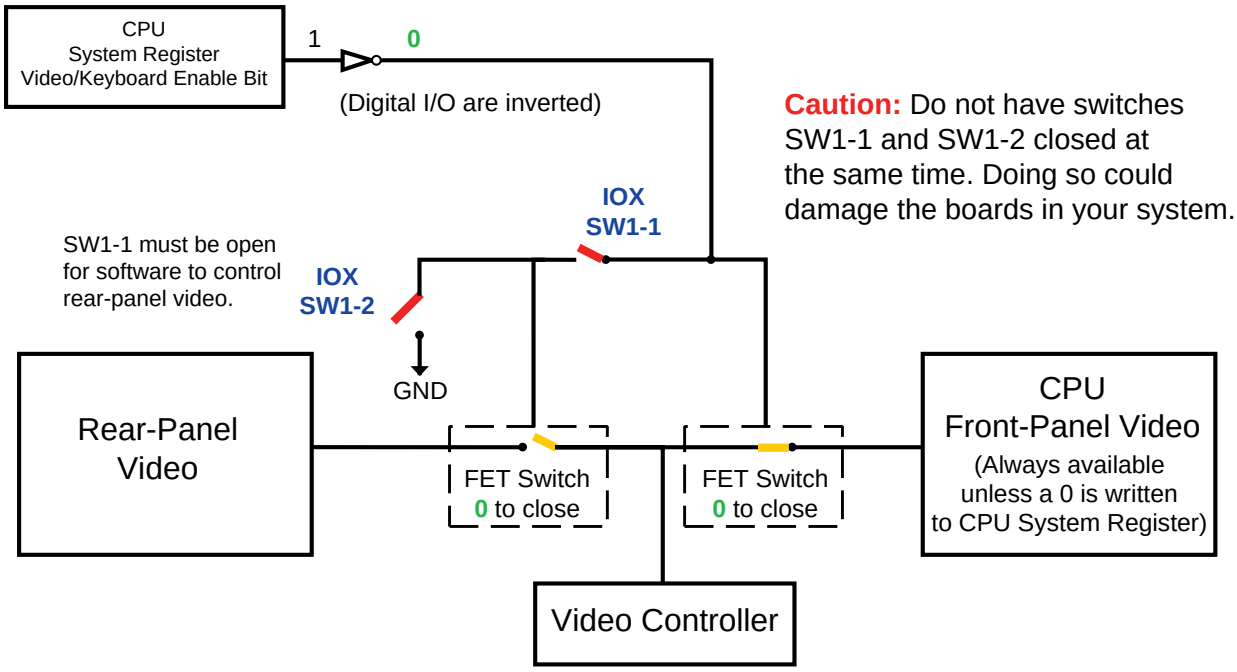
	ZT 96073 SW1-1	ZT 96073 SW1-2	CPU System Register Video/Keyboard Enable Bit
† **Software Controlled CPU Front-Panel Video**	Open	Open	Write a 1
Software Controlled RPIO Video	Closed	Open	Write a 1
Force Rear-Panel Video via Hardware	Open	Closed	Don't care

WARNING!

Do not have switches SW1-1 and SW1-2 closed at the same time. Doing so could damage the boards in your system.

† Factory default configuration

Software Controlled Front-Panel Video



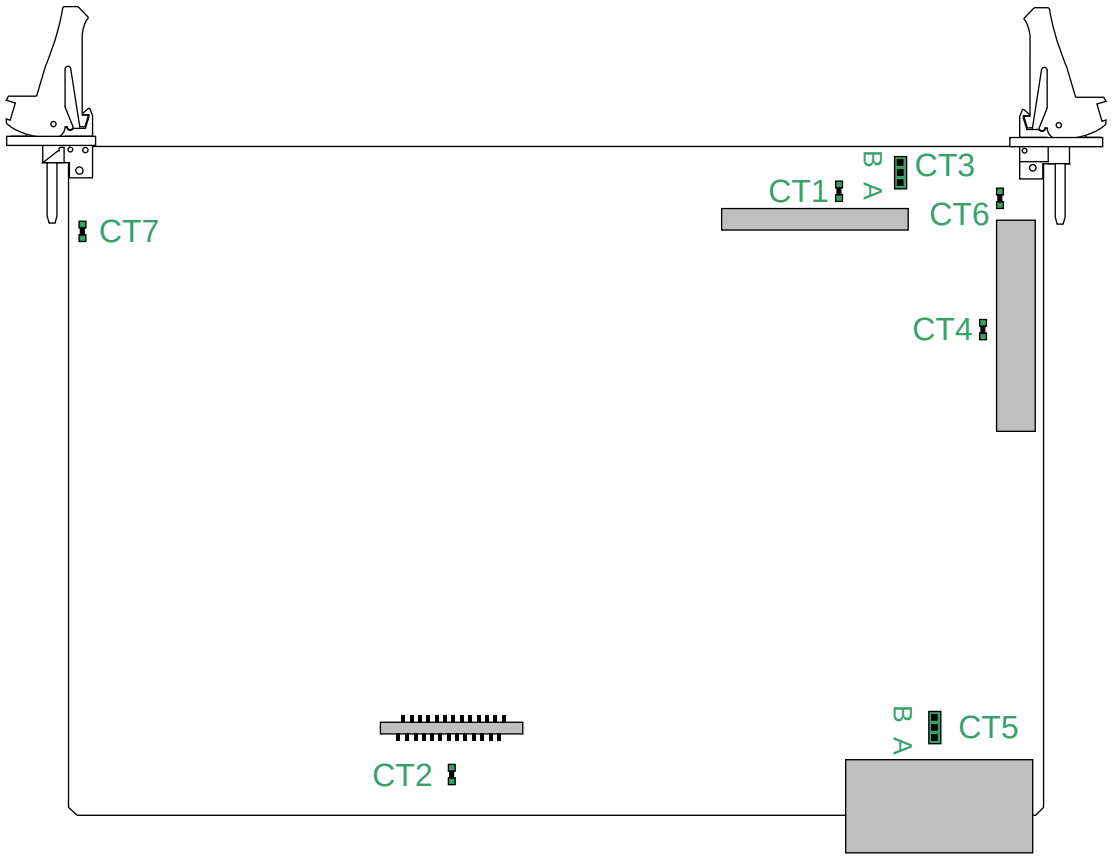
Video Interface Configuration

CUTTABLE TRACE OPTIONS AND LOCATIONS

The ZT 96073 contains several cuttable traces (zero Ω shorting resistors) that allow the user to configure certain options not configurable through the BIOS Setup Utility. The "ZT 96073 Cuttable Trace Locations" figure shows the placement of the cuttable traces. The "ZT 96073 Cuttable Trace Definitions" table provides a quick cross-reference for the ZT 96073 cuttable trace descriptions that follow.

There are two types of cuttable traces on the ZT 96073: single-option and double-option. **Single option cuttable traces** are implemented using 0603 and 1206 surface mount pads. A zero Ω shorting resistor is then soldered between these pads to make the connection. **Double option cuttable traces** (CT5) are implemented using three 0603 surface mount pads. The zero Ω shorting resistor is then soldered between one set of pads, depending on the chosen option.

CAUTION: The ZT 96073 implements additional cuttable traces not documented in this manual. These are reserved for Ziatech and should not be modified by the user. Modifications to documented cuttable traces should only be performed by a qualified technician familiar with surface mount soldering techniques. The product warranty is voided if the board is damaged by customer modifications.



ZT 96073 Cuttable Trace Locations

ZT 96073 Cuttable Trace Definitions

CT#	Default	Description
CT1	In	Reserved
CT2	Out	Reserved
CT3	A	Reserved
CT4	Out	Reserved
CT5	Out	RPIO VIO to Vcc or 3.3VDC
CT6	Out	Connect Earth ground to Signal ground
CT7	Out	RPIO VIO to Vcc or 3.3VDC

CT5 (J5 VIO Voltage Level For RPIO)

CT5 sets connector J5, pin A-10 VIO voltage level to either 5.0 V or 3.3 V for rear-panel I/O, according to the table below. Factory default is 5.0 V (position A installed).

Position	Function
† A	5.0 to VIO
B	3.3 to VIO

CT6, CT7 (Connect Chassis GND to Logic GND)

The ZT 96073's faceplate is on an isolated chassis ground. The faceplate can be connected to the ZT 96073 logic ground by installing CT6 and CT7. Both cuttable traces should be in or both out. The factory default is out.

Position	Function
Both In	Faceplate connected to logic ground.
† Both Out	Faceplate on an isolated chassis ground.

† Factory default configuration

3. SPECIFICATIONS

This chapter describes the electrical, environmental, and mechanical specifications of the ZT 96073. It includes connector descriptions and pinouts, as well as illustrations of the board dimensions and connector locations.

ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

This topics listed below provide the following electrical and environmental specifications:

- Environmental ratings
- DC operating characteristics

Environmental Ratings

- Storage Temperature: -40° to +85° Celsius
- Non-Condensing Relative Humidity: <95% at 40° Celsius

DC Operating Characteristics

- Supply Voltage, Vcc: 4.75 V to 5.25 V
- Supply Voltage, +12 V: 11.4 V to 12.6 V
- Supply Voltage, -12 V: Not used
- Supply Voltage, 3.3 V: Not used
- Supply Current, Icc(5 V): Power requirements depend on the floppy and hard drives loaded. Most drives use approximately 1 Amp max., 500 mA during a READ/WRITE, and approximately 300 mA nominal. Since both a floppy and a hard drive are mounted on the ZT 96073, we double these values to 2 Amp max., 1 Amp during a READ/WRITE, and approximately 600 mA nominal.
- Supply Current, Icc(3.3 V): Not used
- Supply Current, 12 V: The ZT 96073 does not use +12 VDC supply current unless it is used by hardware mated to a power connector on an RPIO board.

MECHANICAL SPECIFICATIONS

The topics listed below provide the following mechanical specifications:

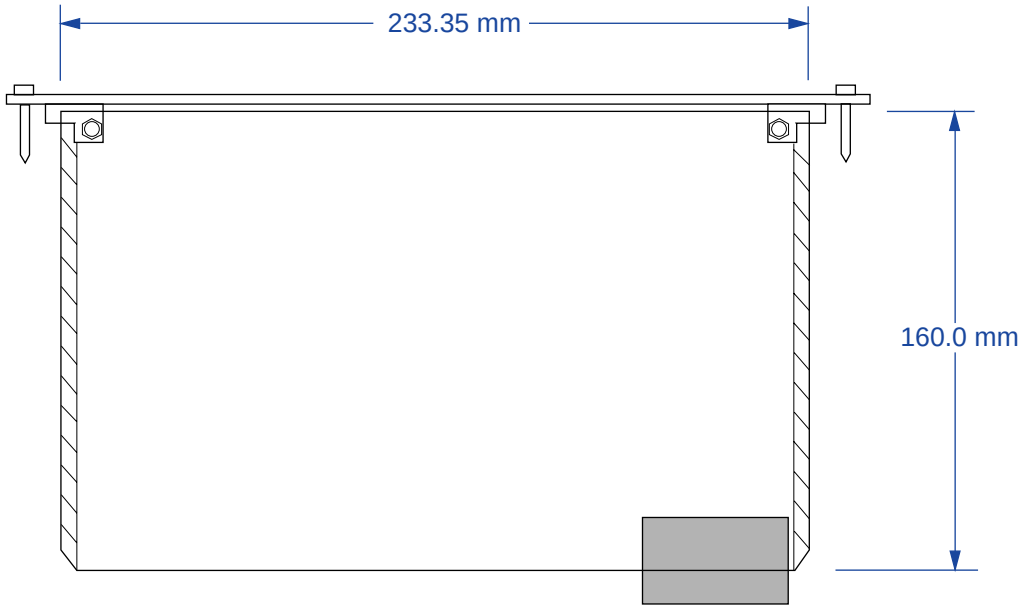
- Board dimensions and weight
- Connectors (including connector locations, descriptions, and pinouts)

Board Dimensions and Weight

The ZT 96073 meets the *CompactPCI® Bus Specification, PICMG 2.0, Version 2.1* for all mechanical parameters.

Mechanical dimensions are shown in the "ZT 96073 Board Dimensions" illustration and outlined below.

- Board Length: 160 mm (6.299 inches)
- Board Width: 233.35 mm (9.187 inches)
- Board Thickness: 1.6 mm (0.063 inches)
- Board Weight with products loaded 0.524 kilograms (1 lb., 2.5 ounces)



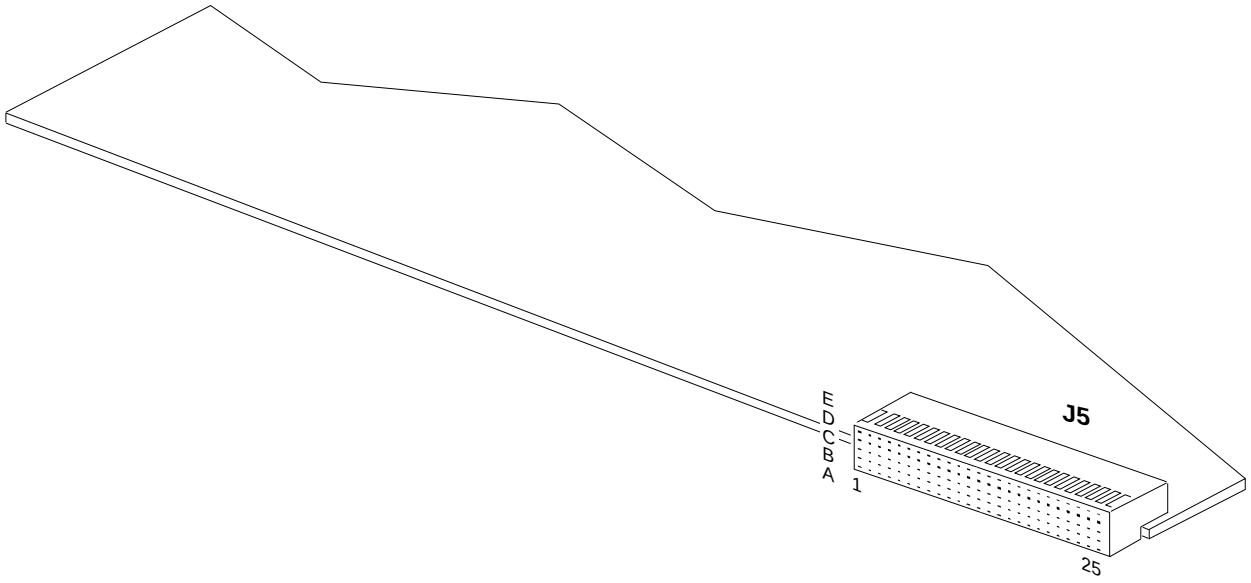
ZT 96073 Board Dimensions

Connectors

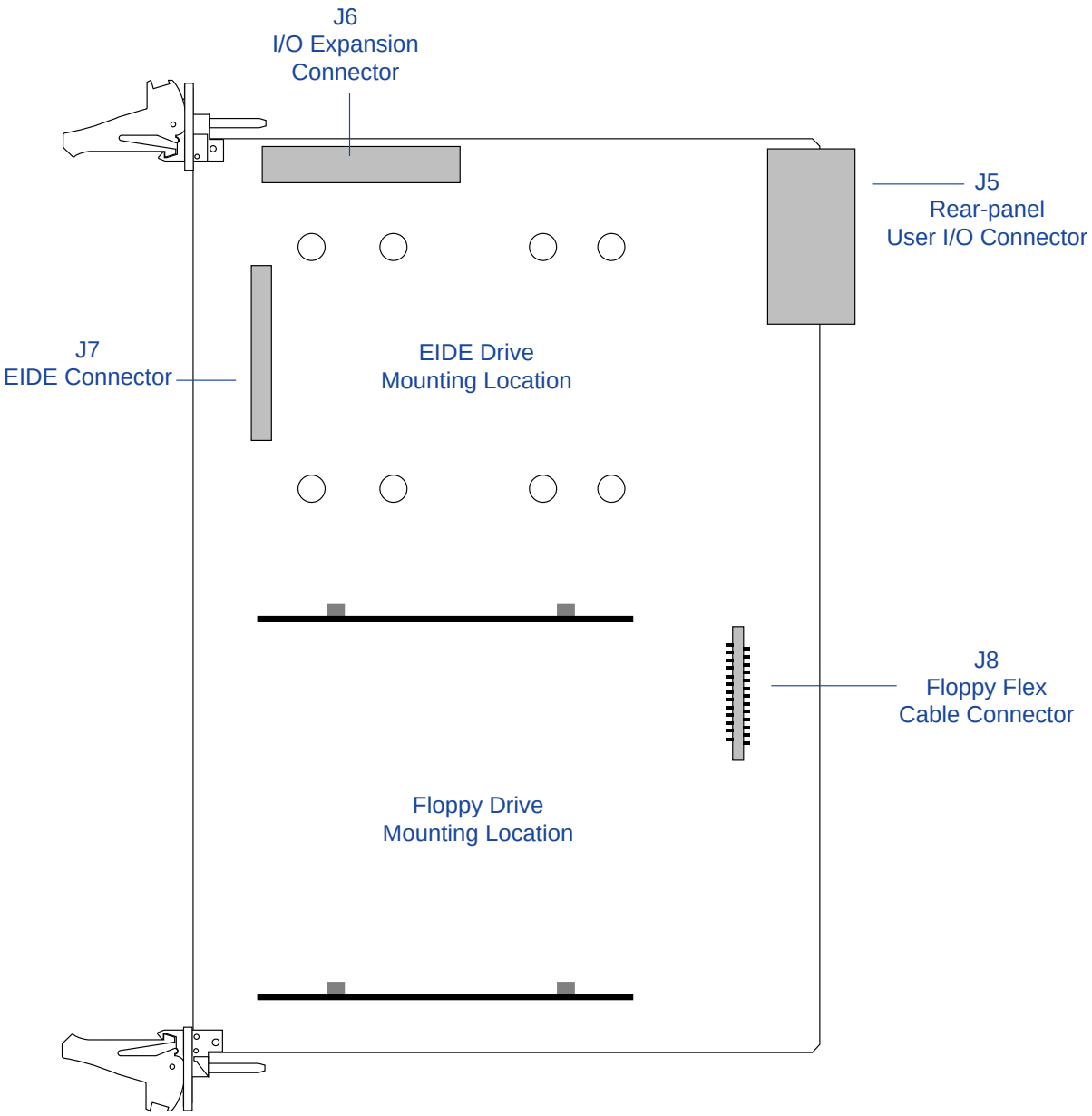
As shown in the "ZT 96073 Connector Locations" figure, the ZT 96073 includes one backplane connector and three internal connectors. The "ZT 96073 Backplane Connector Pin Locations" figure shows the pin placement of the ZT 96073's J5 backplane connector. A brief description of each connector is given in the "ZT 96073 Connector Assignments" table below. Complete connector descriptions and pinouts are provided in the following topics.

ZT 96073 Connector Assignments

Connector	Function
J5	Rear-Panel User I/O Connector (110-pin, 2 mm x 2 mm, female)
J6	I/O Expansion Connector (100-pin, 2 mm x 2 mm, female)
J7	EIDE Connector, for mounted 2.5" drive (44-pin, female)
J8	Floppy Flex Cable Connector (26-pin, female)



ZT 96073 Backplane Connectors Pin Locations



ZT 96073 Connector Locations

J5 (Rear-Panel User I/O Connector)

J5 is a 110-pin, 2 mm x 2 mm, right angle, female connector (AMP 352152-1) carrying signals from a video adapter that may be mounted on the CPU and from a floppy drive that may be mounted on the ZT 96073. Signals from both devices are then available for transitioning by an RPIO board (such as the ZT 4802). See the "J5 Rear-Panel User I/O Connector Pinout" table below for pin definitions and the "ZT 96073 Backplane Connector Pin Locations" figure showing pin placement.

J5 Rear-Panel User I/O Connector Pinout

Pin#	A	B	C	D	E	F
22	N/C	N/C	N/C	N/C	N/C	GND
21	N/C	N/C	N/C	N/C	N/C	GND
20	N/C	N/C	N/C	N/C	N/C	GND
19	N/C	N/C	N/C	N/C	N/C	GND
18	N/C	N/C	N/C	N/C	N/C	GND
17	N/C	N/C	N/C	N/C	N/C	GND
16	N/C	N/C	N/C	N/C	N/C	GND
15	N/C	N/C	N/C	N/C	N/C	GND
14	N/C	N/C	N/C	N/C	N/C	GND
13	N/C	N/C	N/C	N/C	N/C	GND
12	N/C	N/C	N/C	N/C	N/C	GND
11	N/C	N/C	N/C	N/C	N/C	GND
10	IOX VIO	N/C	N/C	N/C	N/C	GND
9	GND	GND	WGATE	MTR1	DRIVE_VCC	GND
8	J5_DDCCLKIN	GND	WDATA	DR1	GND	GND
7	GND	J5_DDCDATIN	STEP	MSEN0	DRIVE_VCC	GND
6	J5_VSYNCIN	GND	DIR	DENSL	GND	GND
5	GND	J5_HSYNCIN	MTR0	HDSEL	N/C	GND
4	J5_VCCVID	GND	DSKCHG	RDATA	GND	GND
3	GND	J5_BLUIN	DR0	WP	IOX_PWR_GD	GND
2	J5_REDIN	GND	INDEX	TRK0	+12VDC	GND
1	GND	J5_GRNIN	MZ_ID1	DRIVE_VCC	+12VDC	GND
Pin#	**A**	**B**	**C**	**D**	**E**	**F**

J6 (I/O Expansion Connector)

J6 is a 100-pin, 2 mm, stacking connector (two 50-pin, dual row, female on primary side, male on secondary side) carrying IDE, floppy, and video signals between the ZT 96073 and the CPU. See the “J6 I/O Expansion Connector Pinout” table for pin definitions.

J6 I/O Expansion Connector Pinout

Pin#	A	B	C	D
1	GND	HDSEL#	XTAT	GND
2	GND	RDATA#	DRIVE_VCC	DRIVE_VCC
3	GND	WP#	GND	IDEACK
4	GND	TRK0#	CS3P#	CS1P#
5	NC	WDATA#	DA2	DA0
6	NC	STEP#	PDIAG	DA1
7	BEDSEL	DIR#	ISA1O16#	IRQ14
8	DIGIO0	DENSL	GND	DDAK0#
9	DIGIO1	MTR0#	CSEL	IORDY
10	DIGIO2	DR1#	GND	DIOR#
11	DIGIO3	MSEN0	GND	DIOW#
12	DIGIO4	DRO#	GND	DDRQ0
13	DIGIO5	DSKCHG#	NC	GND
14	DIGIO6	WGATE#	DD15	DD0
15	DIGIO7	INDEX#	DD14	DD1
16	DRIVE_VCC	MTR1#	DD13	DD2
17	DRIVE_VCC	NC	DD12	DD3
18	DDCCLKIN	VID_EN#	DD11	DD4
19	GND	DDCDATIN	DD10	DD5
20	VSYNCIN	GND	DD9	DD6
21	GND	HYSYNCIN	DD8	DD7
22	VCCVID	GND	GND	IDE_RST
23	GND	BLUIN	PMC1-BUSMODE4	PMC2-BUSMODE4
24	REDIN	GND	PMC1-BUSMODE2	PMC2-BUSMODE2
25	GND	GRNIN	PMC1-BUSMODE1	PMC2-BUSMODE1

J7 (EIDE Connector)

J7 is a 44-pin (dual 22-pin), right-angle, female receptacle (Molex 87264-4450) with 2 mm lead spacing for mounting a 2.5 inch EIDE drive. See the "J7 EIDE Connector Pinout" table for pin definitions.

J7 EIDE Connector Pinout

Pin#	Function	Pin#	Function
1	PWRGD	2	GND
3	DD7	4	DD8
5	DD6	6	DD9
7	DD5	8	DD10
9	DD4	10	DD11
11	DD3	12	DD12
13	DD2	14	DD13
15	DD1	16	DD14
17	DD0	18	DD15
19	GND	20	NC
21	DDRQ0	22	GND
23	DIOW#	24	GND
25	DIOR#	26	GND
27	IORDY	28	ITPU1
29	DDAK0#	30	GND
31	IRQ14	32	ISAIO16#
33	DA1	34	PDIAG (NC)
35	DA0	36	DA2
37	CS1P#	38	CS3P#
39	IDEACK	40	GND
41	5V (Logic)	42	5V (Motor)
43	GND	44	XT/AT#

J8 (Floppy Flex Cable Connector)

J8 is a 26-pin connector (AMP 2-487953-6) for a mounted floppy drive's flexible printed circuit cable. The drive is accessible at the ZT 96073's faceplate and is available to an optional RPIO board. See the "J8 Floppy Flex Cable Connector Pinout" table for pin definitions.

J8 Floppy Flex Cable Connector

Pin#	Function	Pin#	Function
1	FUSEDVCC	2	INDEX
3	FUSEDVCC	4	DR0
5	FUSEDVCC	6	DSKCHG
7	DR1	8	N/C
9	MSEN0	10	MTR0
11	DENSL	12	DIR
13	MODE	14	STEP
15	GND	16	WDATA
17	GND	18	WGATE
19	GND	20	TRK0
21	GND	22	WP
23	GND	24	RDATA
25	GND	26	HDSEL

A. CUSTOMER SUPPORT

This chapter offers technical and sales assistance information for this product, and also the necessary information should you need to return a Ziatech product.

TECHNICAL/SALES ASSISTANCE

If you have a technical question, please call Ziatech's Customer Support Service at the number below, or e-mail our technical support team at tech_support@ziatech.com. Ziatech also maintains an FTP site located at ftp://ftp.ziatech.com.

If you have a sales question, please contact your local Ziatech Sales Representative or the Regional Sales Office for your area. Address, telephone and FAX numbers, and additional information is available at Ziatech's website, located at:

http://www.ziatech.com.

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San Luis Obispo, CA 93401 USA

Tel (805) 541-0488

FAX (805) 541-5088

RELIABILITY

Ziatech has taken extra care in the design of the product in order to ensure reliability. The product was designed in top-down fashion, using the latest in hardware and software design techniques, so that unwanted side effects and unclean interactions between parts of the system are eliminated. Each product has an identification number. Ziatech maintains a lifetime data base on each board and the components used. Any negative trends in reliability are spotted and Ziatech's suppliers are informed and/or changed.

RETURNING FOR SERVICE

Before returning any of Ziatech's products, you must phone Ziatech at (805) 541-0488 and obtain a Returned Material Authorization (RMA) number. The following information is needed to expedite the shipment of a replacement to you:

1. Your company name and address for invoice.
2. Shipping address and phone number.
3. Product I.D. number.

4. If possible, the name of a technically qualified individual at your company familiar with the mode of failure on the board.

If the unit is out of warranty, service is available at a predesignated service charge. Contact Ziatech for pricing and please supply a purchase order number for invoicing the repair.

Pack the board in **anti-static** material and ship in a sturdy cardboard box with enough packing material to adequately cushion it. ***Any product returned to Ziatech improperly packed will immediately void the warranty for that particular product!*** Mark the RMA number clearly on the outside of the box before returning.

ZIATECH WARRANTY

Ziatech provides a five-year limited warranty to its customers with a special extended warranty option. Ziatech also has an explicit policy regarding the use of Ziatech products in life support systems. These topics are covered in the following sections.

Five-Year Limited Warranty

Products manufactured by Ziatech Corporation are covered from the date of purchase by a five-year warranty against defects in materials, workmanship, and published specifications applicable to the date of manufacture. During the warranty period, Ziatech will repair or replace, solely at its option, defective units provided they are returned at customer expense to an authorized Ziatech repair facility. Products which have been subjected to misuse, abuse, neglect, alteration, or unauthorized repair, determined at the sole discretion of Ziatech, whether by accident or otherwise, are excluded from warranty. The warranty on fans and disk drives is limited to two years and the warranty on flat panel displays is limited to nine months from date of purchase. Other products and accessories not manufactured by Ziatech are limited to the warranty provided by the original manufacturer. Consumable items (fuses, batteries, etc.) and software are not covered by this warranty.

Ziatech Corporation warrants that for a period of ninety (90) days from the date of purchase; the media on which software is furnished will be free of defects in materials and workmanship under normal use; and the software contains the features described in the Ziatech price list. Otherwise, the software is provided “AS IS”. This limited warranty extends only to Customer as the original licensee. Customer's exclusive remedy and Ziatech's entire liability under this limited warranty will be, at Ziatech's option, to repair or replace the software, or refund the license fee paid therefore.

Ziatech may offer, where applicable and available, replacement products; otherwise, repairs requiring components, assemblies, and other purchased materials may be limited by market availability.

Ziatech assumes no liability resulting from changes to government regulations affecting use of materials, equipment, safety, and methods of repair. Ziatech may, at its discretion, offer replacement products.

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY FOR FITNESS OF PURPOSE, MERCHANTABILITY, OR FREEDOM FROM INFRINGEMENT OR THE LIKE, AND ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATIONS, OR SAMPLE.

Ziatech neither assumes nor authorizes any person to assume for it any other liability. The liability of Ziatech under this warranty agreement is limited to a refund of the purchase price. In no event shall Ziatech be liable for loss of profits, use, incidental, consequential, or other damage, under this agreement.

Life Support Policy

Ziatech products are not authorized for use as critical components in life support devices or systems without the express written approval of the president of Ziatech Corporation. As used herein:

1. Life support devices or systems are devices or systems which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.

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