

MiniPCI-VGA-Z9s MiniPCI VGA / LVDS Module

User's Manual

(Revision 1.0A)

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Chapter 1

Introduction

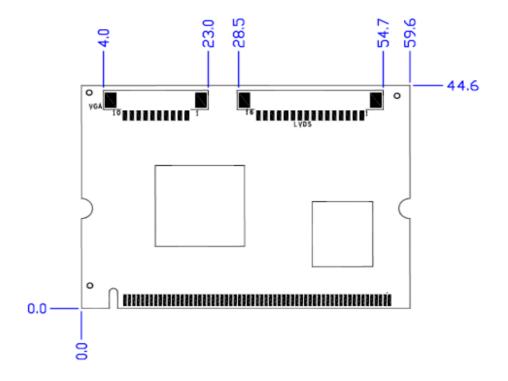
1.1 Packing List

Product Name	Package		
MiniPCI-VGA-Z9s	 MiniPCI-VGA-Z9s VGA / LCD module x1 CABLE-MINIPCI-L-30CM x 1 		

1.2 Specifications

Features	MiniPCI-VGA-Z9s		
Chipset	Volari Z9s Chipset 32-bit PCI bus Support 12-bit, 18-bit, and dual 12-bit Digital Interface Support VGA, LVDS 18 bits Flat Panel Display		
BIOS	VGA BIOS		
Video Memory	Onboard 32MB DDRII Resolution up to 1600x1200@16M colors		
Bus Interface	Mini-PCI standard compliant		
Connectors	 1.25mm 10-pin wafer for VGA x1 1.25mm 16-pin wafer for LVDS x1 		
Power Requirement Single Voltage +5V @80mA			
Dimension 64.7mm X 44.6mm (2.54 x1.76 inches)			
Weight	9g		
Operating Temperature-20°C ~ +70°C -40°C ~ +85°C (Optional)			

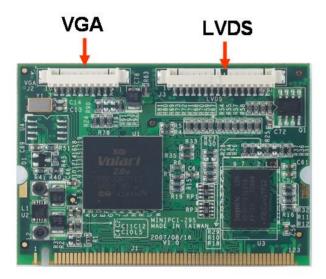
1.3 Board Dimension



Chapter2

Installation

2.1 Board Outline



2.2 Connectors & Jumpers Summary

Summary Table				
Nbr	Description	Type of Connections	Pin nbrs.	
J1	MINI-PCI TYPE-III	MINI-PCI TYPE-III interface	124-pin	
J2	VGA	Wafer, 1.25Ø , 10x1	10-pin	
J3	LVDS	Wafer, 1.25Ø , 16x1	16-pin	

2.3 Pin Assignments & Jumper Settings

J2: VGA

Pin #	Pin # Signal Name		Signal Name
1	ROUT	2	GND
3	GOUT	4	GND
5	BOUT	6	GND
7	HSYNC	8	GND
9	VSYNC	10	GND

J3: LVDS

Pin #			
1	VDD3 (3.3V)	2	VDD3 (3.3V)
3	RxIN0+	4	RxIN0-
5	GND	6	GND
7	RxIN1+	8	RxIN1-
9	GND	10	GND
11	RxIN2+	12	RxIN2-
13	GND	14	GND
15	CKIN+	16	CKIN-

Chapter 3

Driver Installation

Mini-PCI-VGA-Z9s use Display chip ""Volari[™] Z9s" which is an ultra low powered graphics chipset with total power consumption at around 1-1.5 W. It is capable in providing VGA display output upto 1600x1200. With DVO interface, developers could easily connect flat Panel to support TFT and LVDS output.

For more information about ""Volari™ Z9s" Driver, this can be downloaded from: <u>http://www.xqitech.com/sd/sd_download.asp</u>

Appendix

A. LVDS Flat Panel Support List

Size	Brand	Resolution	Model No.
3.5″	PVI	640x480	PD035VL1
6.5″	AUO	640x480	G065VN01
8.4″	AUO	800x600	G084SN03
10.4″	MITSUBISHI	800x600	AA104SG01
10.4″	AUO	800x600	G104SN02
10.4″	Sharp	800x600	LQ104S1LG61
12.1″	MITSUBISHI	800x600	AA121SL03
12.1″	AUO	800x600	G121SN01

B. Flat Panel Wiring and Lighting

Hardware

Before you connect the LVDS LCD Flat Panel with Mini-PCI-VGA-Z9s, please make sure that the input Voltage of LVDS LCD is 3.3V or Not

BIOS

Please contact or e-mail our regional sales to get the special BIOS for the any LVDS LCD Flat Panels.

Wiring LCD Cable

Please refer to <u>Page 6</u> (<u>J3: LVDS connector</u>), Or for more LCD lighting and integration service, please contact our regional sales or mail to <u>info@icop.com.tw</u>, if you have any questions.

Warranty

This product is warranted to be in good working order for a period of one year from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, originality to use this product. Vendor will not be liable for any claim made by any other related party. Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.