

PCA-5612 Industrial VGA Card with XGI Volari™ Z9s

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 PCA-5612 Industrial VGA card
- 1 PCA-5612 Startup Manual
- 1 CD with driver utility
- Warranty certificate

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Note: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/products/acrobat/readstep2.html

Software Installation

The CD disc contains a driver installer program that will lead you through the installation of your VGA card.

Caution

The computer is provided with a battery-powered Real-time Clock circuit. There is a danger of explosion if battery is incorrectly replaced. The battery doesn't need to be charged. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.

FCC

This device complies with the requirements in part 15 of the FCC rule. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/network>

For technical support and service, please visit our support website at:

<http://www.advantech.com.tw/support>

This manual is for the PCA-5612 series Rev. A1.

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Industrial VGA card specifications

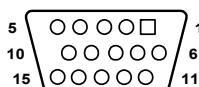
- **GPU:** XGI Volari™ Z9s
- **Bus:** PCI 2.2
- **Memory:** 16bit, 350MHz 32MB DDRII SDRAM
- **CRT1 output:** 1600 x 1200, up to 60Hz vertical rate
- **DVI:** Single Link TMDS up to UXGA (1600x1200@60Hz)
- **Dual Display Mode:** CRT + DVI in windows XP/2K/Linux, supporting mirror only, NOT supporting extension mode.
- **OS's Supported:** Microsoft® Windows XP/2K/Linux/Unix/FreeBSD.

1. Connectors

The VGA card has a number of connectors that allow you to configure your system to suit your application.

Label	Function
CON2	Reserve for SDVO module (SDVO module NOT available yet)
CRT1	VGA port
VCN4	DVI port

CRT1 : VGA connector

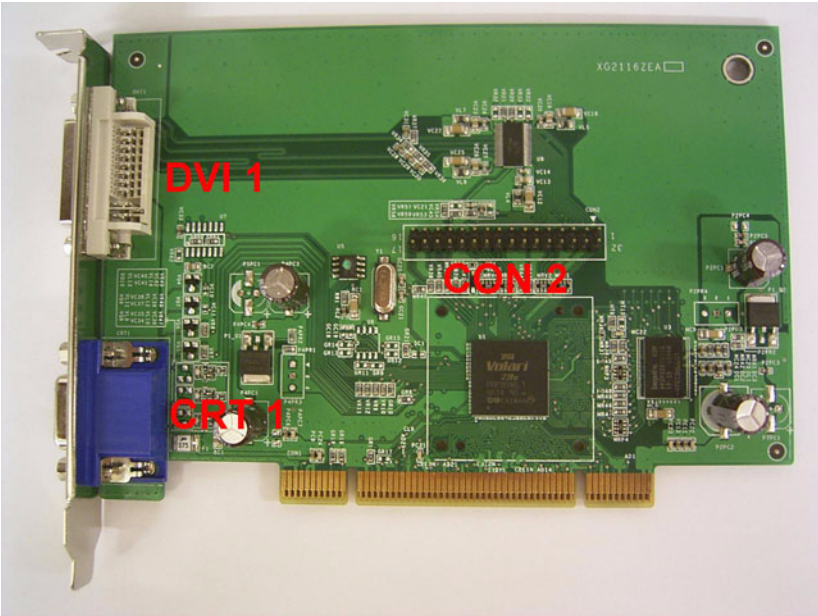


Pin	Signal	Pin	Signal
1	RED	9	VCC
2	GREEN	10	GND
3	BLUE	11	N/C
4	N/C	12	SDT
5	GND	13	H-SYNC
6	GND	14	V-SYNC
7	GND	15	SCK
8	GND		

DVI1: DVI port

Pin	Signal	Pin	Signal
1	TMDS2-	2	TMDS2+
3	TMDSSD	4	N/C
5	N/C	6	DDC2_SCLOUT
7	DDC2_SDAOUT	8	N/C
9	TMDS1-	10	TMDS1+
11	TMDSSD	12	N/C
13	N/C	14	5V
15	GND	16	HP0_DETECT
17	TMDS0-	18	TMDS0+
19	TMDSSD	20	N/C
21	N/C	22	TMDSSD
23	TMDSClk+	24	TMDSClk-
C1	N/C	C2	N/C
C3	N/C	C4	N/C
C5	N/C	C6	N/C

2. Board Layout



Board Layout: Jumper and Connector Locations