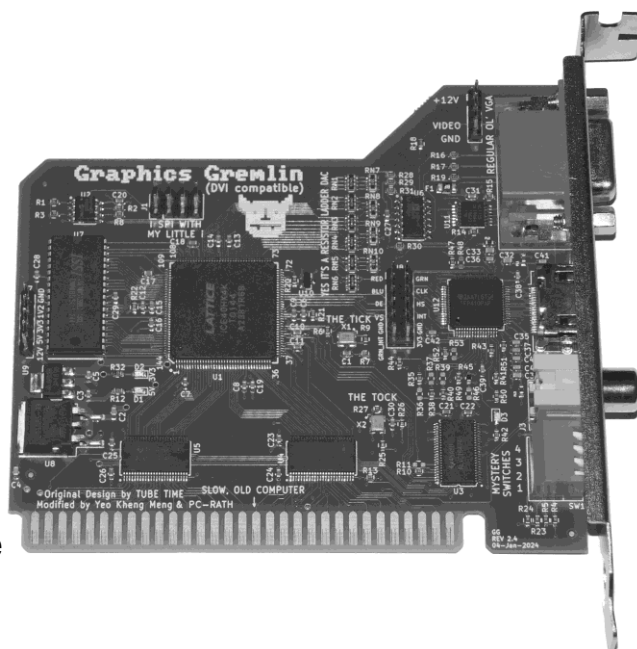


Instructions

Aurum Graphics Gremlin HD Card

1. Introduction

This instruction manual describes to you the correct and safe installation and use of the card. Before you start with the installation and use, please read this manual completely. Especially the safety instructions must be observed. A faulty installation or use can cause damage to the card or to your devices. This manual must be kept in good condition for later use and must be provided when passing on the card.



2. Intended Use

The Graphics Gremlin HD card (hereinafter referred to as the card) is intended for connecting common monitors and televisions with VGA, Composite, or modern digital HD connection (also DVI via passive adapter). Any deviating use is not intended and thus leads to the loss of warranty claims. Reading, understanding, and following this manual also belongs to the intended use. It is not intended for the card to be installed or used by children under 14 years of age. This item is not a toy. The use and installation of the item by minors should be accompanied by adults.

3. Package Contents:

- 1 Instructions
- 1 Card

4. You will need to use (not included)

- 1 100% IBM-Compatible Computer with ISA-interface 8/16-Bit
- 1 suitable Monitor / TV with suitable video connection
- 1 suitable connection cable (VGA, Composite, HD, or DVI to HD)

5. Safety Instructions

Electrical components/contacts can have sharp edges, which can cause skin injuries if handled carelessly. If the components are damaged, they must be disposed of properly and replaced by qualified personnel, as they can pose unforeseeable risks.

5.1. Electrical Hazard:

The plug-in card may only be used in dry indoor areas and is operated with a safe low voltage. Insulation is therefore not required. However, it is known that some of the very old accessories do not always meet the applicable safety requirements due to defects. If you are not absolutely sure, you must not use such a device until it has been checked by a person with sufficient specialist knowledge.

Use only suitable and safe tools. You can prevent electrical hazards as follows:

- Installation work may only be carried out when all computer connection cables have been unplugged and the computer is de-energized.
- Use/installation/connection must take place in closed, dry and clean rooms, without the presence of excessive humidity/wetness/splash water.
- The device may only be supplied with the permitted low voltages of 12V +/- 5% and 5V +/- 5%
- The power supply to the computer and monitors must be provided by correctly earthed power supplies.
- The power supplies used must be plugged into properly installed and fused sockets
- Defective/damaged devices must not be used.
- If condensation forms, wait 2 hours before work can begin.
- Only original spare parts may be used for repairs.
- The computer power supply must not be opened under any circumstances.

5.2. Environmental Hazard

The work surface must be sufficiently large, tidy and illuminated, and allow sufficient freedom of movement. A small, unsuitable and cramped work surface or room conditions are more likely to lead to injuries or damage. ESD: To prevent static charge, the person installing the equipment should discharge themselves electrically beforehand, e.g. via a grounded radiator.

5.3. Other Hazards

Due to a lack of responsibility or carelessness, children under 14 years of age can cause all of the dangers described above. Children under 14 years of age must not install or use the plug-in card.

The installation and use of the plug-in card by minors should be supervised by adults.

Caution: Small parts that can be swallowed! The sharp components can be life-threatening. Do not let the components get into the hands of small children / babies.

In schools, training facilities, self-help and hobby workshops, the use must be monitored responsibly by trained personnel.

The accident prevention regulations of the Association of Commercial Professional Associations for Electrical Systems and Operating Resources must be observed in commercial facilities.

6. Function

The plug-in card connects modern, common monitors/TVs with computers with 8/16 Bit ISA slots and is software-compatible with MDA and CGA programs. The monitor and computer used, as well as the software, must be suitable for use. Please note that no 100% compatibility with all computers/monitors/TVs/software can be guaranteed.

7. Technical Data:

Supply Voltage:	12V / 5V +/-5% from the ISA slot
Maximum Current Consumption:	12V 120mA / 5V 4A
Protection Class	IP 00
Operating Ambient Temperature	0 - +50°C
Storage Ambient Temperature	-10°C - +70°C
Permissible Relative Humidity	0 – 85%
Weight / Dimensions of the Plug-in Card	approx. 66 g / approx. 12 x 12.1 x 2.2 cm

8.1 Configuration

The computer must be configured for the desired video mode. The switching between MDA Mono / CGA Color is done via DIP switches / jumpers on the motherboard or in the BIOS. Please consult the motherboard manual for this.

No jumpers may be set on the card itself. The card is to be configured with the rear DIP switches to the desired mode as follows:

8.2 DIP Switch Settings MDA Mode

1	2	3	4	Mode	The MDA mode supports monochrome text display with 25x80 characters. The VGA output is always amber.
Off	Off	Off	Off	MDA 70Hz (HD Green)	
Off	On			MDA 70Hz (HD Yellow)	
On	Off			MDA 70Hz (HD White)	
On	On			MDA 70Hz (HD Red)	

8.3 DIP Switch Settings CGA Mode

1	2	3	4	Mode	VGA and Composite cannot be active simultaneously. The HD output is always active.
Off				CGA VGA-Mode	
On				CGA Composite-Mode	

1	2	3	4	Mode	
	Off			Normal Font	
	On			Thin Font	

1	2	3	4	Mode	CGA 60Hz is the default setting; other settings may cause problems with HD / DVI.
		Off	On	CGA 70 Hz	
		On	Off	CGA 60 Hz	
		On	On	CGA 60 Hz Overscan	
Off	Off	On	Off	Default setting (VGA, normal font, CGA 60 Hz)	

9. Installation

Caution: If the plug-in card / cables / computer / drives become hot or start to smoke during operation, all devices must be turned off immediately!

The slot cover, if present, behind a dust and corrosion-free ISA connection is removed by unscrewing the corresponding screw. The plug-in card is inserted into the ISA slot until the golden contacts are completely hidden and secured with the previously removed screw. One or more monitors / televisions can now be connected at the back.

10. Troubleshooting Checklist

A device becomes hot or starts to smoke:

Caution! Immediately disconnect all connections to the power supply.

- Possible causes: faulty computer supply voltage / faulty monitor/television, plug-in card incorrectly installed Test image is displayed (screen filled with partially flashing letters):
- Graphics card is not recognized, computer is not compatible or mono/color setting is incorrect No image is displayed:
- Monitor/television is not compatible with current setting / plug-in card

11. Technical Hotline

For inquiries regarding the expansion card, you can reach us by phone and email: 02129 / 58 58 314 and PC-Rath@gmx.de

12. Repairs

You can send us defective expansion cards for repair (Computerservice Rath, Ferdinandstr. 34, 47249 Duisburg). In the case of warranty, the repair is free of charge for you. Outside of warranty cases, we reserve the right to refuse the repair if it is uneconomical or impossible. Please do not send us the expansion card unpaid. In the case of warranty, we will reimburse the regular shipping costs. Otherwise, the shipping costs for both sending and returning are to be borne by you.

13. Warranty

The statutory warranty provisions apply. Claims for product liability or compensation for consequential damages only exist in accordance with the statutory provisions.

The warranty expires in the following cases:

- unauthorized modification/repair attempts to the circuit
- damage caused by interventions by third parties
- misuse and/or damage due to negligent handling or abuse

14. EC declaration of conformity



The product meets the legal requirements as indicated by the CE marking.

Manufacturer: Computerservice Rath, Ferdinandstr. 34, 47249 Duisburg, licensee of the AURUM brand (SoftwareFair KSP GmbH, Michael Weber, Alte Hellersdorfer Str. 136, 12629 Berlin)

15. Declaration on the WEEE Directive



Disposal is ensured by the brand AURUM (SoftwareFair KSP GmbH, Michael Weber, Alte Hellersdorfer Str. 136, 12629 Berlin), which is registered with the responsible foundation EAR according to the ElektroG under the WEEE number DE43541249.

Do NOT dispose of this product in normal household waste. It was developed to be properly recycled & disposed of. The symbol of the crossed-out trash can indicates that this product must not be disposed of in normal household waste. Please inquire with your local authorities about the proper disposal of electronic products.