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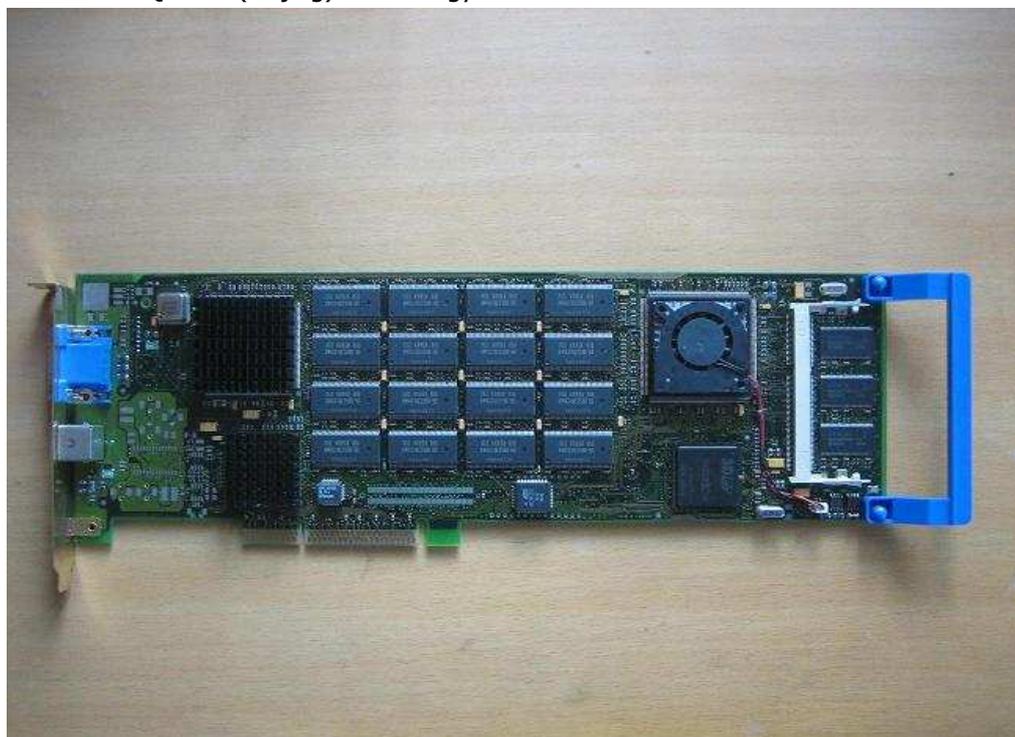
**Recalling the classic professional graphics (a) ELSA GLoria-XXL**

[ December 25, 2007, monk, original]

## ELSAHistory

ELSA, who is a focus on graphics design and development of the famous German driver, graphics card makers, has been in the professional graphics market with a good reputation. ELSA can be based on the same chip design to achieve much higher than the public version of the performance, thanks to its excellent drive R & D capabilities. In the last century, 90 years, ELSA launched a series based on 3Dlabs professional graphics chip, the classic products. Later, the 3Dlabs acquisition of a graphics card manufacturers began selling its own brand of graphics products, no longer provide its chips, ELSA started with NVIDIA's cooperation. First product in 1999 was launched based on TNT2 chip entry-level professional card Synergy II, it can be a piece of "non-professional" graphics chips for OpenGL professional graphics field, ELSA drive R & D team to solve the public version of the driver thousands of Bug, and can make TNT2 chips 3D acceleration graphic design software in full play. But then the TNT2 chip design because of the small number of one or two OpenGL functions can not provide support, Synergy II running Maya and Softimage software problems occur, making this product also looked less than perfect. Later, NVIDIA released the integrated T & L Engine GeForce 256 next-generation GPU graphics chips, ELSA launched a professional version based on its Quadro chip Gloria III high-end professional cards, thus gaining the NVIDIA card market in the professional glory. Soon, NVIDIA will ELSA drive R & D team's revenue, while the ELSA is in exchange for a Quadro chip channels in the three-year exclusive global marketing rights. Today NVIDIA Quadro line of professional cards for AutoCAD and 3ds max enhanced driver Powerdraft and Maxtreme once by the ELSA driver components to accelerate the development of the classic. In subsequent years, ELSA continue to offer based on the NVIDIA Quadro series chips Synergy III, Gloria III, Synergy 4, Gloria 4, and other professional graphics products. While the profitability of a good graphics cards, but ELSA appear in the investment mistakes of communications products, resulting in ELSA German parent bankrupt. Since then, Leadtek obtained NVIDIA Quadro line of professional cards in Asia Pacific (excluding Japan) distributor, ELSA professional card brand in the Japanese market be maintained, while mainland China is responsible for the business before the ELSA Gigabyte Taiwan companies were acquired, become the latter is a wholly owned subsidiary. With NVIDIA's co-disruption, ELSA has become the ATI FireGL line of professional card agent, using its reputation to help professional users in the ATI card in the mainland to promote professional. Not long ago, ELSA also announced a NVIDIA in the mainland AIX members, and begin again with NVIDIA's cooperation, we can see that ELSA's Quadro family of professional card.

Here we come to appreciate in 1998 in ELSA with 3Dlabs chips top products -Gloria XXL



ELSA Gloria XXL graphics with AGP 1.0 specification of the graphical interface, full-length card design. It is up to the year the retail price of 19,000 yuan, and now has no use value only as a lover's collection.



Memory card on the back covered and some other chips.



Gloria XXLcard on a total of 4 months the main chip: one with a fan that is the upper right corner of 3Dlabs GLINT MX chip, as the main 3D processor, responsible for rasterization and texture operations; lower left corner of the 3Dlabs GLINT GAMMA chips, as the co-processor, responsible for the geometry and lighting calculations, the equivalent was integrated into the graphics chip inside the T & Engine, now the graphics card has this part of the operation by the Vertex Shader to achieve; the upper left corner of the chip is the IBM RGB640 RAMDAC, for converting digital signals to analog signal output, its bandwidth is 250MHz, maximum support 1920 \* 1080 resolution; the lower right corner is the 3Dlabs PERMEDIA 2V chip. Today's card features on these chips has long been among the concentrate to a graphics chip was not such a high level of integration, this will undoubtedly bring about a significant increase in cost.



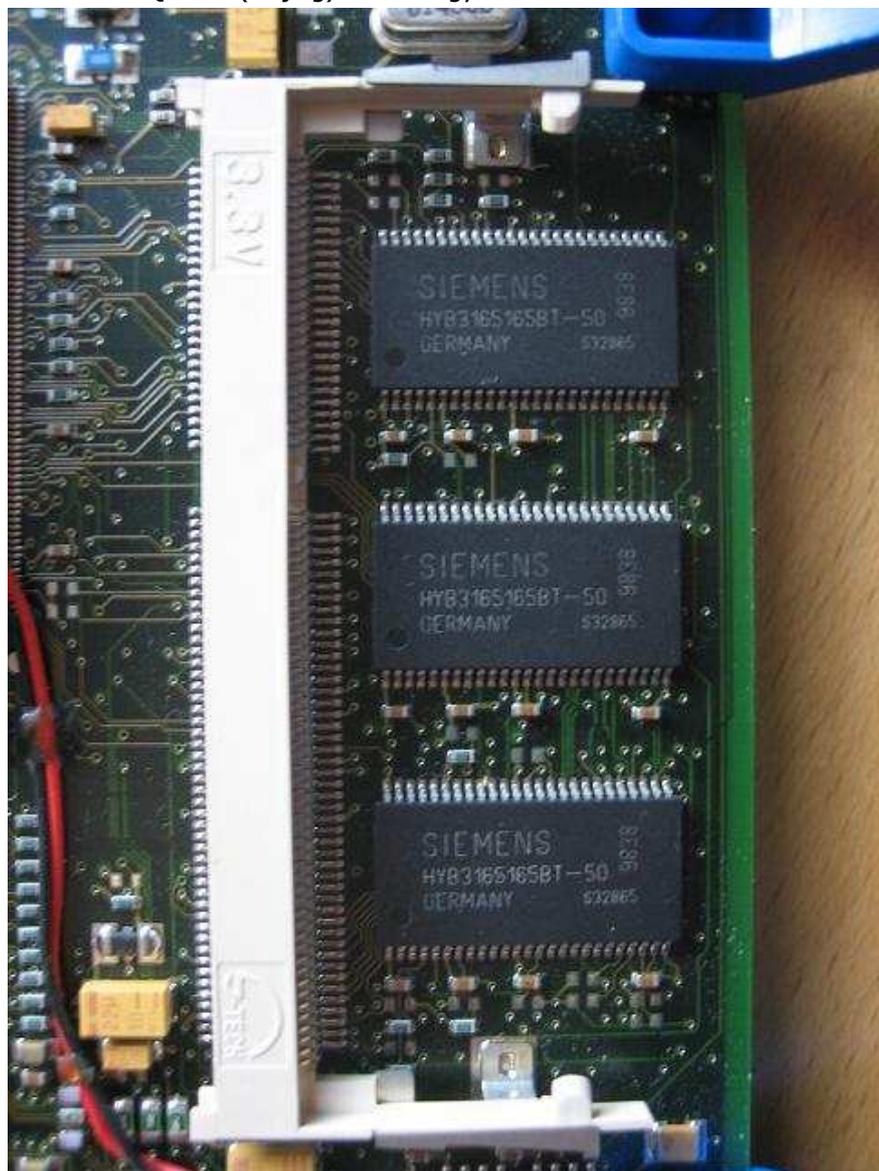
The only use of block graphics BGA package 3Dlabs PERMEDIA 2V chip, this card is only used in 2D the basic display. PERMEDIA 2 of the 2D performance is certainly outstanding

ng in fact,thechip also has some3Dacceleration, used here in a bit of resources wasted.

Gloria XXLgraphics memory to 16MBframe buffer+24MBtexture cache.Frame buffer using the fasterVRAMshow dedicated memory, dual-port operation;texture cache isrelatively slow with a large-capacityDRAM, this can take into account the performance and cost. Independent of the frame buffer andtexture cache utilization of space are certainly not as good as in the integration of memory, but they have their own memory interface and bandwidth.



16MBframe buffer, from both sides of the16films threestars256K X 16 VIDEO RAMcomposed ofsingle size512KB,50ns, used to storeframe bufferdata. Memory is also posted on theELSAmodel label, you can see in the abovegraphicsorigin is France.



24MB texture cache, the 3-chip TSOP II package SIEMENS 4M x 16bit EDO-DRAM components, monolithic capacity 8MB, 50ns, for the storage of texture data. Marked with 3.3V of SO-DIMM slots can be used for other expansion 16MB memory, the texture cache to upgrade to 40MB. Later, SIEMENS has marked the company's memory, Infineon and Qimonda's logo, Infineon (Infineon) is the semiconductor business unit of Siemens to set up independent companies, and Qimonda (Qimonda) is 2006 on 5 May 1st spin-off from Infineon Technologies AG out of the new memory company.



Located in the back of the card2starsPQFPpackage,IBM SGRAMmemory, chip size1 MB,7.5ns, the maximum operating frequency of133MHz, specifically forPERMEDIA 2 Vgraphics chips to use.



The graphics in addition to providing D-sub display output interface, and a 3-pin stereo glasses interface. Today's high-end professional graphics cards generally come with this interface, when I first saw this piece of card. In addition, I/O metal bracket, but after a gold-plated treatment.



Gloria XXL card using 10-layer PCB board. Today, high-end gaming graphics using the 10-layer PCB is nothing new; but at the time, most of the mainstream gaming cards also 4-layer PCB, 6-layer PCB can only be seen in some high-end products, 10-layer PCB, but rather the cost of high.



"4298" message on behalf of the production date of this card 98 years the first 42 weeks.



PCB board above ELSA logo. In 1998 years, ELSA graphics PCB design are carried out by themselves.

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