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737-18872: ATI AGP Graphics Cards - AGP Compliance

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This article describes:

- ATI graphics card AGP specifications,
- Signaling
- Supported AGP speeds

Note: The chart in Figure 1 lists all AGP product families along with their applicable connector type and AGP specification.

ATI AGP 1.0 compliant graphics cards are designed to operate at a 3.3 V AGP signaling. Hence, they are keyed "AGP 3.3V". They will operate in AGP 1.0 compliant motherboards as well as AGP 2.0 compliant motherboards with a **Universal AGP** slot.

AGP 1.0 graphics cards are designed to operate at a maximum of AGP 2X. they cannot be inserted in AGP 2.0 motherboards where the AGP slot is keyed "AGP 1.5V, such as those based on the Intel i845, i850, or i860 chipset that operate at AGP 4X only. Please refer to Figure 2 for the current AGP key configurations.

Please check with your motherboard manufacturer if you are uncertain about the AGP specification it meets.

Not all AGP slot/adapter combinations are supported, as newer systems may incorporate a different AGP slot design. The possible valid and invalid slot/adapter combinations are illustrated in Figure 3.

Figure 1: ATI AGP Graphics Chart

Graphics Controller	AGP Specification			AGP Signaling	AGP Speeds Supported
	1.0	2.0	3.0		
PC AGP Products					
RAGE IIC[1]				3.3V[1]	PCI-66[1]
RAGE PRO/RAGE PRO TURBO	✔			3.3V	2X
RAGE LT PRO	✔			3.3V	2X
RAGE XL	✔			3.3V	2X
RAGE 128	✔			3.3V	2X
RAGE 128 PRO		✔		3.3V, 1.5V	2X, 4X
RAGE FURY MAXX[2]	✔			3.3V[2]	2X[2]
RADEON		✔		3.3V, 1.5V	2X, 4X
RADEON 7000		✔		3.3V, 1.5V	2X, 4X
		✔			

RADEON 7200		3.3V, 1.5V	2X, 4X
RADEON 7500	✔	3.3V, 1.5V	2X, 4X
RADEON 8500	✔	3.3V, 1.5V	2X, 4X
RADEON 9000	✔	3.3V, 1.5V	2X, 4X
RADEON 9100	✔	3.3V, 1.5V	2X, 4X
RADEON 9200	✔	3.3V, 1.5V, 0.8V	2X, 4X, 8X
RADEON 9500	✔	3.3V, 1.5V, 0.8V	2X, 4X, 8X
RADEON 9550	✔	1.5V, 0.8V	4X, 8X
RADEON 9600 PC/MAC	✔	1.5V, 0.8V	4X, 8X
RADEON 9700	✔	3.3V, 1.5V, 0.8V	2X, 4X, 8X
RADEON 9800	✔	1.5V, 0.8V	4X, 8X
RADEON X700	✔	1.5V, 0.8V	4X, 8X
RADEON X800	✔	3.3V, 1.5V, 0.8V	2X, 4X, 8X
RADEON X1300	✔	3.3V, 1.5V, 0.8V	2X, 4X, 8X
RADEON X1600	✔	1.5V, 0.8V	4X, 8X
RADEON X1650	✔	1.5V, 0.8V	4X, 8X

The HD Series products from the 2000 series and up are designed by our partners, please contact the board manufacture for details regarding AGP Compliance Details.

FireGL AGP Products

FireGL 1	✔	3.3V	2X
FireGL 2	✔	3.3V, 1.5V	2X, 4X
FireGL 3	✔	3.3V, 1.5V	2X, 4X
FireGL 4	✔	3.3V, 1.5V	2X, 4X
FireGL 8700	✔	3.3V, 1.5V	2X, 4X
FireGL 8800	✔	3.3V, 1.5V	2X, 4X
FireGL T2-64	✔	1.5V, 0.8V	4X, 8X
FireGL T2-128	✔	1.5V, 0.8V	4X, 8X

FireGL Z1-128	✔	1.5V, 0.8V	4X, 8X
FireGL X1-128	✔	1.5V, 0.8V	4X, 8X
FireGL X1-256p	✔	1.5V, 0.8V	4X, 8X
FireGL X2-256	✔	1.5V, 0.8V	4X, 8X
FireGL X2-256t	✔	1.5V, 0.8V	4X, 8X
FireGL X3-256	✔	1.5V, 0.8V	4X, 8X

[1] The RAGE IIC AGP is capable of AGP Frame operation with no other AGP functionality implemented. "PCI-66" refers to the baseline AGP clock cycle. This is also occasionally referred to as "AGP 0X".

[2] The RAGE FURY MAXX is a 2X AGP graphics card that is designed to operate in systems using 3.3V AGP signaling. All other RAGE 128 PRO based graphics boards will operate at 1.5V (AGP 4X) and 3.3V (2X) AGP signaling.
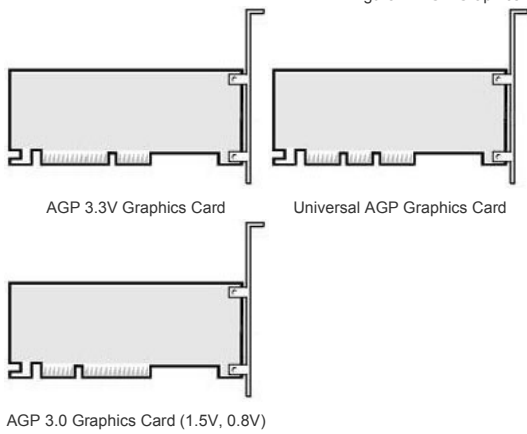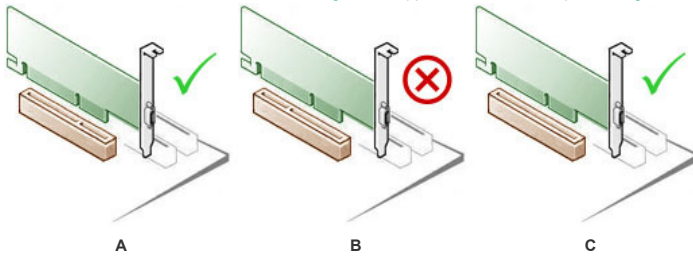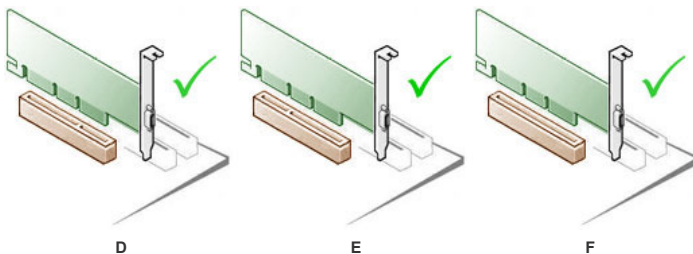
Figure 2: AGP Graphics Card Configurations

AGP 3.3V Graphics Card   Universal AGP Graphics Card

AGP 3.0 Graphics Card (1.5V, 0.8V)

Figure 3: Supported AGP Slot/Adapter Configurations

A   B   C

A: AGP 3.3V (2X) graphics card in an AGP 3.3V (2X) slot.
B: AGP 3.3V (2X) graphics card in an AGP 1.5V (4X) slot (NOT SUPPORTED).
C: AGP 3.3V (2X) graphics card in an AGP Universal (2X/4X) slot.

D   E   F

D: Universal AGP (2X/4X) graphics card in an AGP 3.3V (2X) slot.
E: Universal AGP (2X/4X) graphics card in an AGP 1.5V (4X) slot.
F: Universal AGP (2X/4X) graphics card in an AGP Universal (2X/4X) slot.
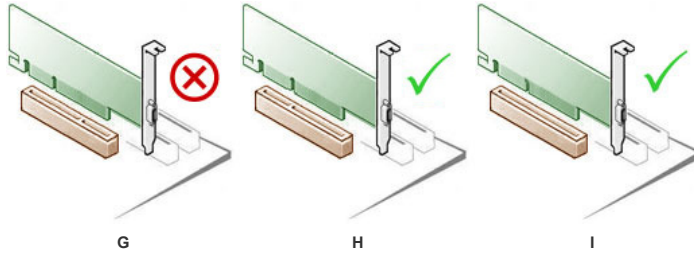
G: AGP 3.0 (4X/8X) graphics card in an AGP 3.3V (2X) slot (NOT SUPPORTED).
H: AGP 3.0 (4X/8X) graphics card in an AGP 1.5V (4X) slot.
I: AGP 3.0 (4X/8X) graphics card in an AGP 3.0 Universal (4X/8X) slot.

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