1. Supported Hardware
   • ATI Rage 128 based cards

2. Features
   • Full support (including hardware accelerated 2D drawing) for 8, 15, 16, 24 bit pixel depths.
   • Hardware cursor support to reduce sprite flicker.
   • Support for high resolution video modes up to 1800x1440 @ 70Hz.
   • Support for doublescan video modes (e.g., 320x200 and 320x240).
   • Support for gamma correction at all pixel depths.
   • Fully programmable clock supported.
   • Robust text mode restore for VT switching.

3. Technical Notes
   • None

4. Reported Working Video Cards
   • Rage Fury AGP 32MB
   • XPERT1 28 AGP 16MB
   • XPERT9 AGP 8MB

5. Configuration
The driver auto-detects all device information necessary to initialize the card. The only lines you need in the "Device" section of your xorg.conf file are:

```diff
Section "Device"
  Identifier "Rage 128"
  Driver "r128"
EndSection
```

or let xorgconfig do this for you.

However, if you have problems with auto-detection, you can specify:
• VideoRam - in kilobytes
• MemBase - physical address of the linear framebuffer
• IOBase - physical address of the memory mapped IO registers
• ChipID - PCI DEVICE ID

6. Driver Options
• "hw_cursor" - request hardware cursor (default)
• "sw_cursor" - software cursor only
• "no_accel" - software rendering only
• "dac_8_bit" - use color weight 888 in 8 bpp mode (default)
• "dac_6_bit" - use color weight 666 in 8 bpp mode (VGA emulation)

7. Known Limitations
• None

8. Authors
The X11R6.9 driver was originally part of XFree86 4.4 rc2.
The XFree86 4 driver was ported from XFree86 3.3.x and enhanced by:
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