

**Problem:**

When I install the Geode LX Processor Windows XP/XPe display driver on an LX 800-based SBC, the video output is corrupted or the system fails to boot (BSOD).

Background:

The [AMD Geode LX Processor Windows XP/XPe display driver](#) can be downloaded here or from the support page of VersaLogic's LX 800-based SBCs, such as the EBX-11 (Python) and EPM-14 (Cougar). This driver provides enhanced features that the native Windows driver does not, such as acceleration support, brightness control, and contrast control.

Note: The AMD driver requires Windows XP SP2 or later to operate.

Some users have reported using the native Windows video driver without a problem, but then experiencing poor video output or BSOD after installing the AMD driver. This is caused by a BIOS incompatibility specific to Windows, which requires that the video buffer size be set to a value that is a power of 2 (2, 4, 8, 16, or 32). Setting the video buffer size to a value that is not a power of 2 can result in errors.

Solution:

Set the video buffer size on the SBC as instructed below.

1. Enter CMOS Setup by pressing Delete during the early boot cycle.
2. On the Custom Configuration menu, set the Video Buffer Size parameter to a power of 2 (2, 4, 8, 16, or 32).
3. Save the CMOS settings and reboot.

Related Articles:

- [VT1528 - EBX-11 CMOS Setup Reference](#)
- [VT1582 - EPM-14 CMOS Setup Reference](#)

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