



Subject: New TeamPoS 2000 “M” Digital Video Chip

Update A: Updated to show new BIOS is NOT Downward compatible. Changes are highlighted.

Overview

There has been a discontinuation of the Digital Video Transmitter Chip in the TeamPoS 2000 “M” motherboard which necessitates the replacement with a new chip that cannot use the same video driver or BIOS as the original chip. The result is the new updated motherboard may require a driver update when used as a replacement the current motherboards.

Problem

The original board (90000759 or 90000759K) can no longer be built with the same Digital Video Transmitter Chip. When a board with the new chip is installed in place of the current board/chip, the display will not function if it is connected to a DVI (D15) or DFP (D12) interface. If the terminal is using the analog VGA interface, the display will still operate properly with the new board installed without upgrading the driver. The ‘new’ driver is version 4.0 and has been available from the supplier since 2005. Some customers already have this updated driver built into their software images. The BIOS is also updated to accommodate the new chip, **however the BIOS is not downward compatible with the old board.**

| | | | |
|-------------------------------|--------|----------------------------------|------|
| Fujitsu Motherboard Revision: | | USI Motherboard Revision: | |
| Current: | 0016AJ | Current: | 1.05 |
| New: | 0018AN | New: | 1.06 |

BIOS Compatibility

| | Version | Old (Current) Board | New Board |
|---------|----------|---------------------|-----------|
| Current | 1ambc038 | OK | NO |
| New | 1ambd044 | OK NO | OK |

Driver Compatibility

| | Version | Old (Current) Board | | New Board | |
|---------|---------|---------------------|-----|-----------|-----|
| | | Digital | VGA | Digital | VGA |
| Current | 3.4 | OK | OK | NO | OK |
| New | 4.0 | OK | OK | OK | OK |

Solution

When replacing an older “M” motherboard with a new “M” motherboard, the old graphic driver needs to be removed and a new driver installed in its place. The new graphic driver is downward compatible with the old 9000759 board, but the new board cannot run on the old graphic driver. The procedure for upgrading the graphics driver is as follows:

The BIOS and Drivers can be downloaded from the FTP site. The BIOS zip file also contains an installation utility and instructions.

Site: <ftp://ftp.ftxs.fujitsu.com>
 BIOS Path: pos/possustaining/retail/TeamPoS2000/BIOS/Pentium_M/BIOS_044.zip
 Driver Path: pos/possustaining/retail/TeamPoS2000/Drivers/Pentium_M/Win2K_XP_Drivers/Video/xxx
 Where xxx is dependant upon your Display configuration.

| <u>INQUIRIES TO:</u> | | DATE |
|---|--|-------|
| Fujitsu Transaction Solutions Inc. | | |
| Exchange: | Sustaining Engineering | _____ |
| Mail: | Fujitsu USA04, Sustaining Engineering | _____ |
| FAX: | 858-731-4781 (7888-4781) | _____ |
| Internet: | SustainingEngineering@ftxs.fujitsu.com | _____ |
| FTP: | ftp://ftp.ftxs.fujitsu.com/ | _____ |
| Original signature copies maintained by Sustaining Engineering. | | |

Driver Upgrade Procedure

- Remove the old board and install the new board
- Power up the terminal in safe mode (Hit **F8** during **POST**)
- Unload the old graphic drivers:
 - Go into the **Control Panel** and click on **system/hardware/device manager/display adapters**
 - There should be two entries for the driver
 - Right click on the first one and uninstall, but do not restart yet
 - Right click on the second one and uninstalled
 - Restart the terminal normally and click cancel when the “**Found new hardware**” window shows up
- Execute the “**setup**” program located in the new graphics driver pack for the correct configuration of the system (ex. DVI Primary, Analog Secondary). The set up program can be found in the “utility” folder.
- Click “**next**” when the driver setup window comes up
- Click “**I agree**” to the software agreement
- A warning screen indicating that the driver has not passed the compatibility test will come up twice. Click on “**continue anyway**” both times.
- Do a restart
- Go back into the **Device Manager** and verify the new driver has been installed.
 - Right click on one of the drivers shown in the display adapters
 - Click on “**Properties**”
 - Click on Driver
 - The new driver version should now be **4.0.0.642**