



Subject: TeamPoS 3600 BIOS Updates

Service Advisory

The BIOS contained in the TeamPoS 3600 terminal is not like the BIOS in previous TeamPoS family products and requires special considerations and cautions whenever attempting updates.

The TeamPoS 3600 has features on the motherboard that increase the complexity of the onboard BIOS. Specifically the AMT and V-Pro features create additional layers or levels of software within the BIOS. A new version may update only the base BIOS (Type 1) or all of the software (Type 2).

Caution

If a BIOS update is attempted and the wrong procedure is used, the process is not completed correctly or is interrupted for any reason, the motherboard can be rendered un-usable. Attempting to recover by performing the BIOS update again will not work in many cases. At this point, the only field recovery is to replace the motherboard.

BIOS Naming Convention

The TeamPoS 3600 BIOS update can come in 2 different types, a Type 1 or a Type 2. The procedure to be followed is dictated by the type of BIOS update that is being installed AND the version of BIOS that is currently installed. To recognize the different file types, the following syntax is used for the BIOS filename:

yunmARXX.bin

Where A is the BIOS Type (1 or 2) and XX is the BIOS revision number.

For example, the filename *yunm2R20.bin* is a Type 2, revision 20 BIOS.

For specific instructions, always refer to the readme file that is included with BIOS update for information and instructions for each release as the instructions may differ depending on the case.

Procedure

The full generic TeamPoS 3600 BIOS update procedure is available on the FTP site, and is also attached to this bulletin for reference. Any document updates will be included in the document on the FTP site only.

<ftp.ftxs.fujitsu.com/pos/possustaining/retail/TeamPoS3600/BIOS> (login required)

- Type 1 BIOS updates can be performed either locally or Remotely.
- Type 2 BIOS updates require local updates. These require the chassis to be opened for a jumper setting.

If the new file is a Type 1 BIOS, but the currently installed BIOS is previous to the last Type 2, the most recent Type 2 BIOS MUST be installed before the new Type 1 BIOS is installed.

Example:

- BIOS version A is currently installed
- BIOS version C (Type 1) is to be installed
 - BIOS version B is a Type 2 BIOS but was never installed
- The BIOS must be updated to version B (Type 2), then updated to version C (Type 1)

As an alternate, future BIOS update files will be requested in both Type 1 and Type 2 versions, but these do not currently exist.

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Original signature copies maintained by Sustaining Engineering.		

BIOS Versions

Below is a matrix of BIOS versions that currently exist in the field. Some of these may only exist in Demo or lab units but are included for reference and completeness. This matrix is for information and will not be updated. Reference any future BIOS update notifications or Sustaining Engineering for current data.

BIOS	Type	Notes
R04	2	Pre-Production – These Motherboards CANNOT be upgraded any further. Attempting to do so may make the MB non-functional or cause other functional issues.
R12	2	
R16	1	
R20	2	
R21	2	Currently in validation/release process.

Impact

- Production No Impact. Informational only.
- Installed Units No Impact. Informational only.
- Repair Center No Impact. Informational only.
- Service Spares No Impact. Informational only.



*Team***PoS 36XX BIOS Update Instructions**

*Issue 1.1
May 25, 2010
Status: WIP
Channels: ALL
Author: GT*



*Team***PoS 36XX BIOS Update Instructions**

May 25, 2010

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Overview

The *TeamPoS 36XX* (Yukon) BIOS update can come in 2 different types, a Type 1 or a Type 2. Depending on the type of BIOS the updates come as will dictate the proper procedure to follow for the BIOS upgrade. To recognize the different file types, the following syntax will be used for the BIOS .bin filename:

yunmARXX.bin

Where A is the BIOS Type (1 or 2) and XX is the BIOS revision number.

For example, the filename yunm2R20.bin is a Type 2, revision 20 BIOS.

For specific instructions, always refer to the readme file for the BIOS update instructions for each release as instructions may differ depending on the case.

Upgrading with Type 1 BIOS

These instructions are provided for the upgrade of the *TeamPoS 36XX* (Yukon) BIOS to Rxx type 1 BIOS update" (xx is the BIOS revision number, R20 would be revision 20) This update only updates the system BIOS area, and does not update any other areas such as the Intel ME BIOS.

- Loading the Rxx BIOS
 1. Copy the folder "Rxx" (xx is the BIOS revision number, R20 would be revision 20) on to a bootable USB drive
 2. Boot to USB drive and go to the "Rxx" folder
 3. Type "awdf flash yunm1rxx.bin /py /sn /r" and hit "Enter"
 4. After BIOS is done flashing, the system will reboot

Upgrading with Type 2 BIOS

Low Level (Type 2) BIOS Update on TP36XX

BIOS updates on the TP36XX will come in 2 different types: Type 1 and Type 2. A Type 1 BIOS update is a standard BIOS firmware update. A Type 2 BIOS update may have updates for one or all of the following components: Intel ME (includes AMT, ASF, QST), GbE and standard BIOS.

Items needed:

- 1 (one) 2.54 mm (0.1 inch) jumper
- The cover for the controller will need to be removed to access the motherboard

**** The instructions below call for a use of a jumper across CN5. If a spare jumper cannot be found, the jumper that is across CN3 can be taken and used for CN5. The instructions were written so that only a single jumper will be needed. ****

REQUIRED:

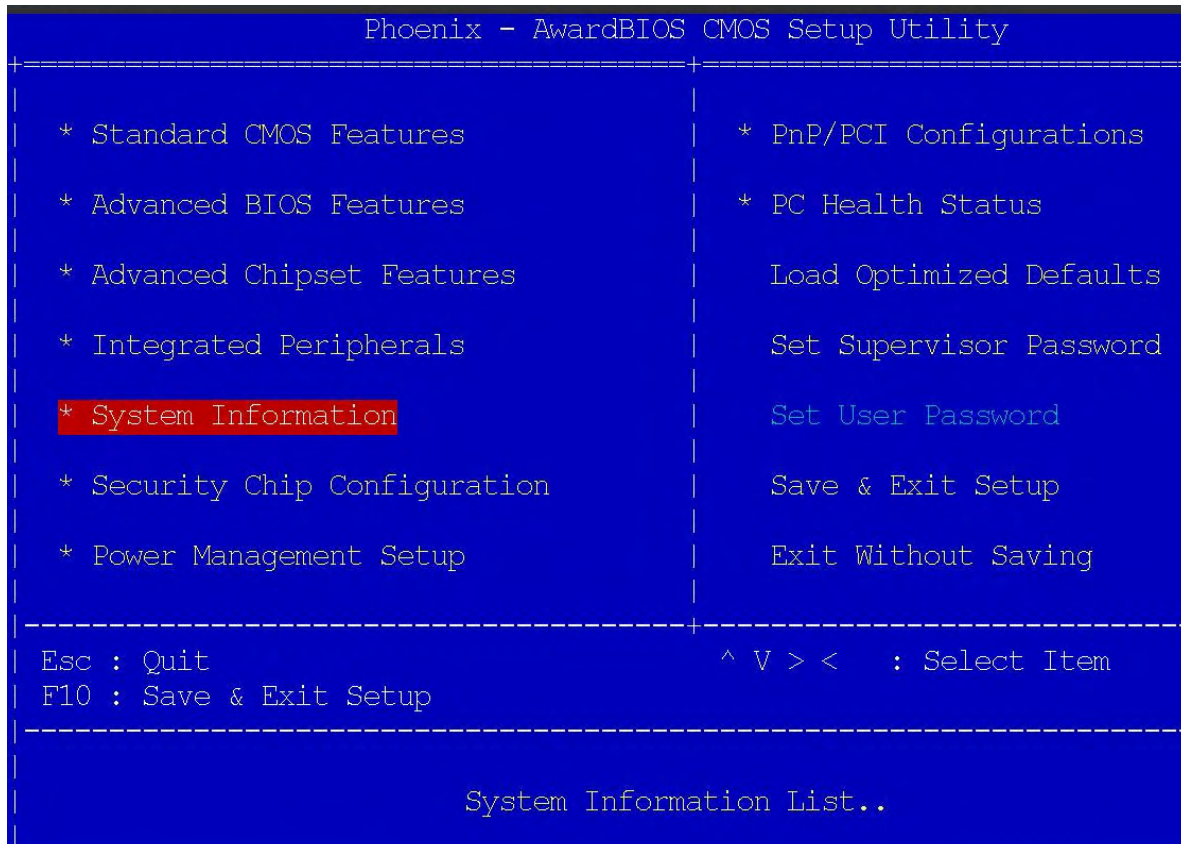
To save current DMI information of current system to be restored after BIOS is updated:

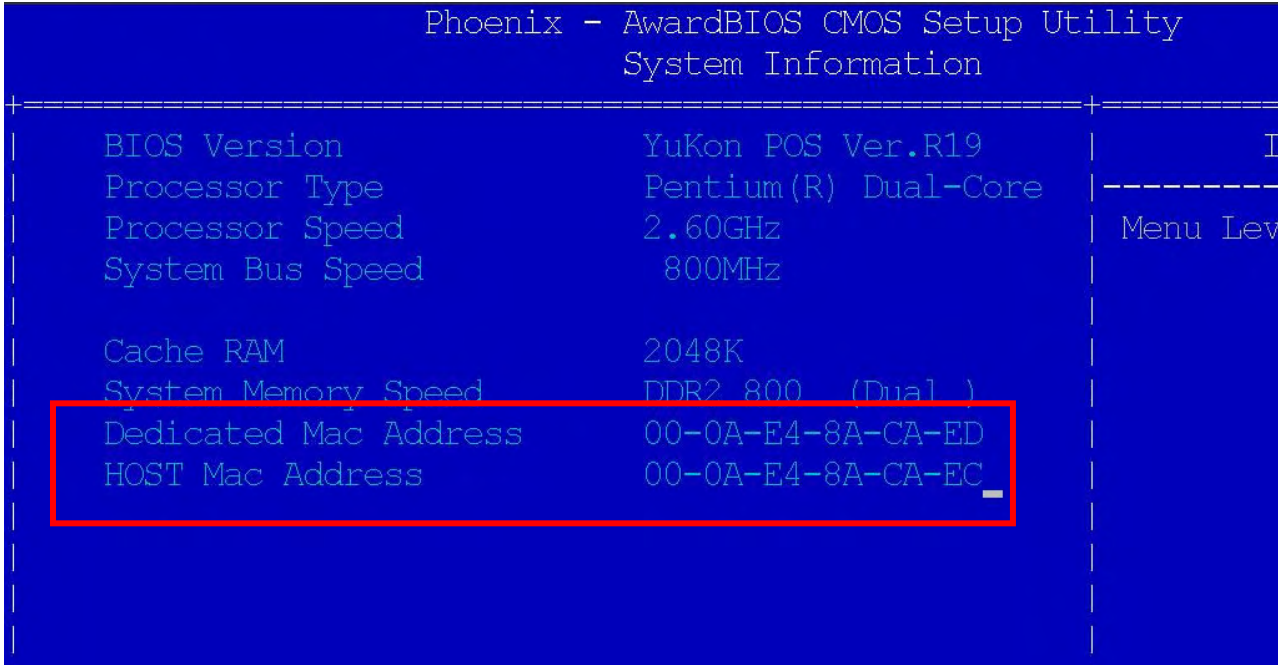
1. Copy contents of **C:\TeamPoS36xx_Software_Support\ControlUnit\BIOS\DOS** onto a bootable USB drive (DMI Tool, RXX BIOS [YUNM2RXX.bin], and BIOS update programs)
*** The contents of DMI Tool and RXX should all reside in the same directory ***
2. Boot to bootable USB Drive and navigate to the directory where the files are located
3. Type "rinfo" and hit Enter
This should save the DMI contents onto the flash drive
4. Copy info on flash drive for later verification

OPTIONAL:

To make sure the correct Mac and LAN addresses are carried over to the new BIOS:

1. Boot the system up and go into BIOS by hitting the “DEL”
2. Go to System Information and look at “Dedicated Mac Address” and “HOST Mac Address” fields





- To verify the Dedicated Mac Address and HOST Mac Address fields in the above step is correct, these numbers can be verified with labels on the controller.

On the controller, there is a label on the connector that interfaces to the HDD board. This is the ME MAC Address. This should be the same number as the **Dedicated Mac Address**:



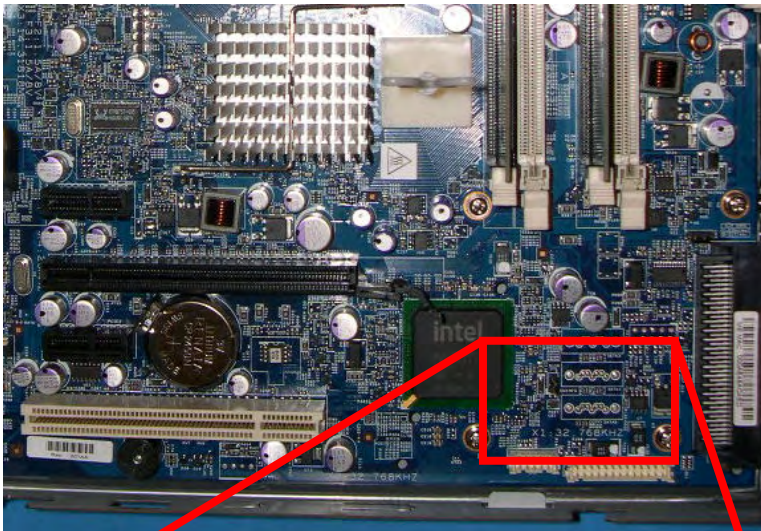
Dedicated Mac Address	00-0A-E4-8A-CA-ED
HOST Mac Address	00-0A-E4-8A-CA-EC

On the controller, there is another label next to the CPU. This is the LAN ID. This should be the same number as the **HOST Mac Address** from above:

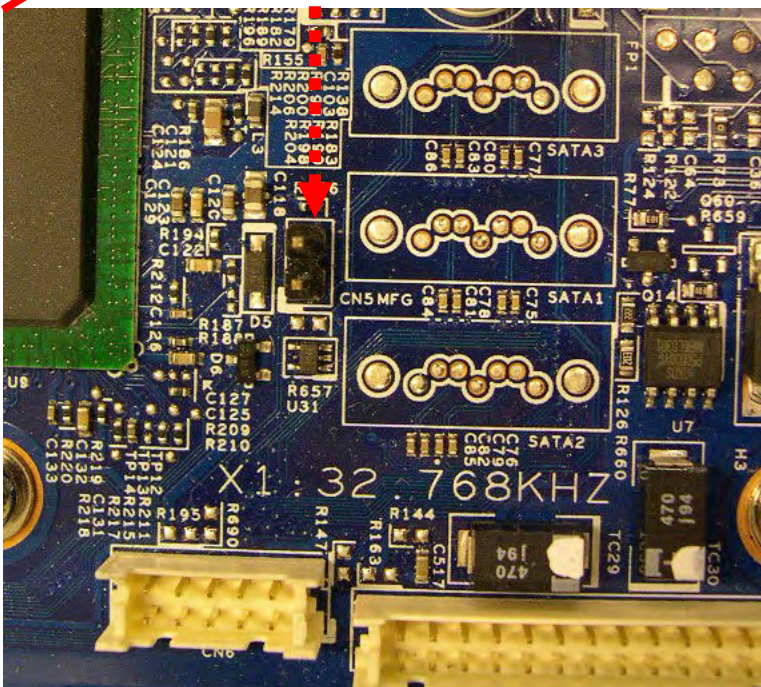
REQUIRED:

Load RXX BIOS:

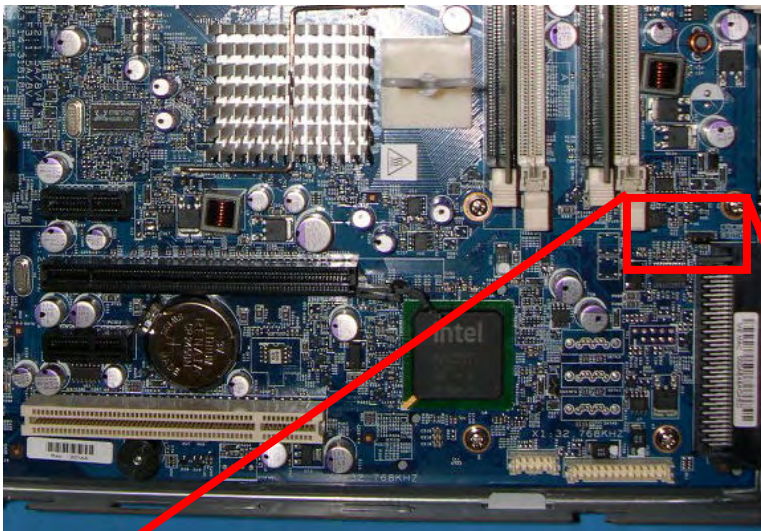
1. Turn off system and put a jumper (not supplied) on CN5 and leave on until update is over. If a spare jumper cannot be found, the jumper across CN3 can be taken and used for this purpose.



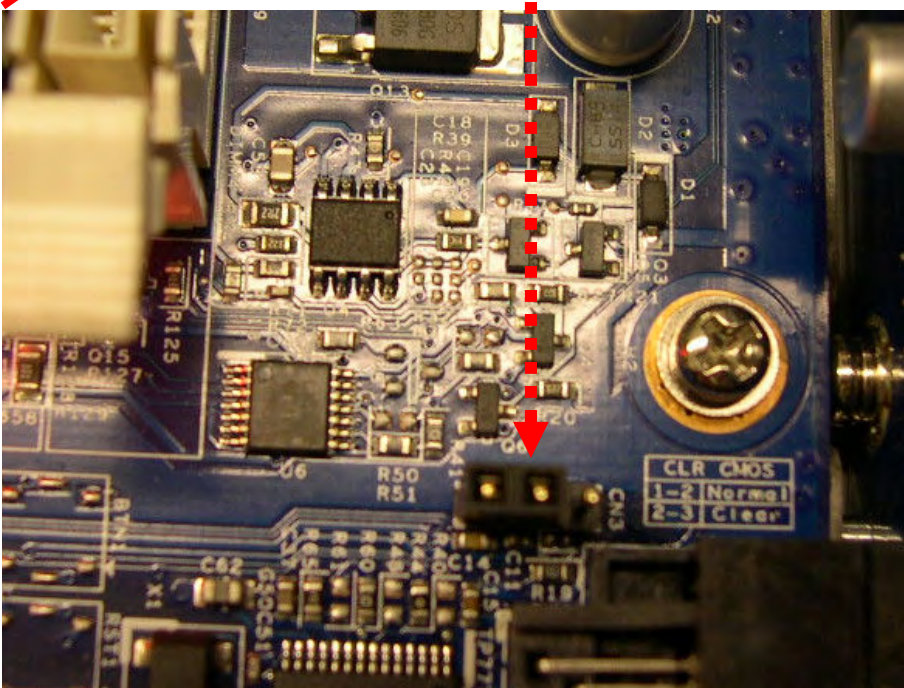
CN5



2. Boot to bootable USB Drive and navigate to the directory where the files are located
3. Type "fprog /f:yunm2rXX.bin" and hit Enter *** XX is the version of the BIOS
For R20, the syntax would be: fprog /f:yunm2r20.bin
4. After BIOS is done flashing, turn off and unplug the terminal
5. Remove jumper on CN5 to enable ME
6. CLR the CMOS by moving CN3 jumper across pins 2 and 3 for a second and then put back across pins 1 and 2. If the jumper for CN5 was used for CN5 above, just place the removed jumper from CN5 and place across CN3 pins 2 and 3 for a second and then put back across pins 1 and 2.



CN3 with jumper across Pins 1 and 2 shown



Load saved DMI information:

1. Reboot system to bootable USB Drive and navigate to the directory where the files are located
2. Type "winfo" and hit Enter
This should have restored the DMI contents
3. Power down and unplug the AC on the terminal
4. Power up and go into BIOS "System Info" and verify Mac Address and LAN are correct.
5. Load Optimized Defaults. If customer uses non default BIOS settings, make the changes after Load Optimized Defaults are set.
6. Save and Exit BIOS
7. Restart back into the OS and verify functionality