DTX5000
Firmware Revision 1.2.0.30
Beta Release Notes
July 30th, 2007

This document outlines:
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DTX5000 System Firmware Version and Compatibility
Version 1.2.0.30
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Version 1.2.0.30 of DTX5000 Extender System firmware is intended to be used in a system with the following DTX5000 system-component revisions:

-DTX5000T	Application Revision	1.2.0.5
	Boot Revision	1.9.0.2
	FPGA Revision	1.1.2.8
-DTX5000R	Application Revision	1.2.0.5
	Boot Revision	1.9.0.2
	FPGA Revision	2.1.2.11

Version 1.2.0.30 of DTX5000 System is compatible with the following revisions:
- 1.0.1.0
- 1.0.2.0
- 1.1.1.0

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Important Installation Notes
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Upgrade the DTX5000T to 1.2.0.30 before the DTX5000R
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How do I update the firmware on my DTX5000 System?
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Note: The DTX5000T MUST be upgraded first.
1. Remove any attached vMedia devices (memory key or CD\DVD ROM) prior to commencing an upgrade or downgrade.
2. When reverting to a previous version of firmware always set:
   a. The Network Speed on both Transmitter and Receiver to Auto-Negotiate.
   b. The Target Video to DVI-Normal or VGA-Normal.

Procedure 1 - Serial port upgrade:
1. Power up the Transmitter (DTX5000T) and Receiver (DTX5000R) and ensure there is a link between them.
2. Connect the Receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
3. From the first screen on the console, select option 2 to access the Transmitter menu. If the password option is enabled, you will be prompted for a password.
4. You will connect to the Transmitter after about 5 seconds.
5. From the Transmitter menu select option 3; "*Firmware Management*".
6. Choose *Transmitter Flash Upgrade Via XMODEM.*
7. Specify the location of the upgrade file *TX0000_12030.dld* and initiate the file transfer. The upgrade should be complete in approximately 20 minutes.

8. When the Transmitter is complete, exit to the Receiver menu.

9. Select option 1 "*Receiver Menu*". If the password option is enabled, you will be prompted for a password.
10. Select option 3 "*Firmware Management*" from this screen.
11. Choose *Receiver Flash Upgrade Via XMODEM.*
12. Specify the location of the upgrade file *RX0000_12030.dld* and initiate the file transfer. The upgrade should be complete in approximately 5 minutes.
13. The Receiver will reset and video will appear if already connected to a system automatically.
14. Exit from console screen and upgrade is complete.
15. Both DTX5000T and DTX5000R Release version code should now read 1.2.0.30 and should be checked using the console menu.

Procedure 2 - Upgrade using HTTP:
1. Power up the Transmitter (DTX5000T) and Receiver (DTX5000R) and ensure there is a link between them and that they have access to a web server containing the upgrade files.
2. Connect the Receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
3. Choose option 2 on the *Main Menu* to access the *Transmitter menu*. If the password option is enabled, you will be prompted for a password.
4. From the *Transmitter menu* select option 3 "*Firmware Management*".
5. Choose *Transmitter Flash Upgrade Via HTTP.* You will be prompted to enter the URL for the upgrade file.
6. Enter the URL for the upgrade file using the following syntax:

   http://<server IP address>[:server port]/<upgrade file path>

   For example:

   http://192.168.0.1:8080/TX0000_12030.dld

   Note: If the server is set up on standard port 80, the port information can be omitted

7. The upgrade should take approximately 2 minutes.
8. Exit to the Main menu.

9. Choose option 1 on the *Main Menu* to access the *Receiver menu*. If the password option is enabled, you will be prompted for a password.
10. Choose *Firmware Management.* The *Firmware Management* menu will appear.
11. Choose *Receiver Flash Upgrade Via HTTP.* You will be prompted to enter the URL for the upgrade file.
12. Enter the URL for the upgrade file using the following syntax:

   http://<server IP address> [: server port]/<upgrade file path>

   For example:

   http://192.168.0.1:8080/RX0000_12030.dld

   Note: If the server is set up on standard port 80, the port information can be omitted

13. Upgrade should take approximately 2 minutes.
14. Both DTX5000T and DTX5000R release version should now read 1.2.0.30 and should be checked using the console menu.

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Enhancements
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1. Added vMedia support for memory key and CD/DVD-ROMs devices.
2. Added support for the following Wide Screen Video resolutions (VESA only):
   a. 1280x720@50Hz.

     b.   1280x720@60Hz
     c.   1360x768@60Hz.
3. Added Video Performance feature.

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Fixes
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Notes
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1. The receiver supports one USB Keyboard and one Mouse. USB devices have precedence over PS/2 devices.
2. On power-up of Transmitter or Receiver, it takes approximately 12 seconds for video, audio, keyboard and mouse to be operational.
3. Multimedia keys are not supported.
4. For Keyboards with both Touch-pads and Eraser heads, only the Touch Pad is supported.
5. Keyboard LEDs are not supported when the OSD is active.
6. The TAB Key is not supported when the OSD is active.
7. The OSD is not supported when the video is transporting 1360x768@60Hz resolution.
8. The following video resolutions are supported:

> 640 x 350 @ 85Hz
> 720 x 400 @ 85Hz
> 640 x 480 @ 60Hz
> 640 x 480 @ 72Hz
> 640 x 480 @ 75Hz
> 640 x 480 @ 85Hz
> 720 x 400 @ 70Hz
> 800 x 600 @ 60Hz
> 800 x 600 @ 72Hz
> 800 x 600 @ 75Hz
> 800 x 600 @ 85Hz
> 1024 x 768 @ 60Hz
> 1024 x 768 @ 70Hz
> 1024 x 768 @ 75Hz
> 1024 x 768 @ 85Hz
> 1152 x 864 @ 75Hz
> 1280 x 960 @ 60Hz
> 1280 x 1024 @ 60Hz
> 1280 x 720 @ 50Hz
> 1280 x 720 @ 60Hz
> 1360 x 768 @ 60Hz

9. In this release, there may be issues in waking a PC from Standby; the keyboard and Mouse connection may be lost. If this event occurs, power-cycle the Transmitter to recover.
10. The following CD\DVD ROM devices are not supported:
     c.   Philips DVDRAM Lightscribe, SPD3300CC/05.
     d.   Plextor PX-608CU-USB2.0 DVD Burner.
     e.   Sony DVD/CD Rewriteable Drive, DRX-830U.
11. In the event of a CD\DVD ROM Hotplug failure, we recommend power cycling the Receiver unit with the memory device attached. This will facilitate the detection of the CD\DVD ROM device.
12. Use of memory key Hotplug is supported. However, it is recommended that the '*Eject*' mechanism is used prior to the removal of memory key devices. Use of the PC '*Safe Removal*' feature to eject vMedia devices is not required. In the event of a user selecting the '*Safe Removal*' Option, the user is required to Hotplug USB cable #1 on the Transmitter.
13. In the event that Transmitter or Receiver unit is removed and reconnected to the Ethernet network, it is recommended that the unit is power cycled.
14. A Memory Key Hotplug when connected to an Apple MAC may cause the Receiver to reset. The system automatically recovers following the reset.