**DTX5002-T**
**Firmware Revision 1.4.1.16**
**Release Notes**
**February 14th, 2008**

This document outlines:

1. DTX5002 System Firmware Version and Compatibility
2. Important Installation Notes
3. How to Upgrade Firmware
4. Enhancements
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6. Notes

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## DTX5002 System Firmware Version and Compatibility Version 1.4.1.16

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Version 1.4.1.16 of DTX5002 System firmware is intended to be used in a system with the following system-component revisions:

- DTX5002-T Revision 1.4.1.16
  - Application Revision 1.2.4.42
  - Boot Revision 1.12.0.0
  - FPGA Revision 3.1.1.21

- DTX5002-R Revision 1.4.1.16
  - Application Revision 1.2.4.42
  - Boot Revision 1.12.0.0
  - FPGA Revision 4.1.1.17

This release is compatible with the following releases:
- 1.4.0.13

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## Important Installation Notes

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When upgrading, it is important to upgrade DTX5002-T Transmitters **before** upgrading DTX5002-R Receivers.

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## How to Upgrade Firmware

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The DTX5002-T can be upgraded using a serial or http upgrade procedure, procedure 1 and 2 respectively.

**Before Upgrading:**
1. Remove any attached vMedia devices (memory key or CD/DVD ROM) from the DTX5002-R (Receiver) prior to commencing an upgrade or Downgrade

***Procedure 1 - Serial port upgrade of DTX5002-T***

1. Power up the Receiver (DTX5002-R) and Transmitter (DTX5002-T) and make sure there is a connection 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. From the *Transmitter menu* select option 3; "*Firmware Management*".

5. Choose *Transmitter Flash Upgrade Via XMODEM.*

6. Specify the location of the upgrade file *TX0000_14116.dld* and initiate the file transfer. The upgrade should be completed in approximately 30 minutes.

***Procedure 2 - Upgrade using HTTP***:

1. Power up the Receiver (DTX5002-R) and Transmitter (DTX5002-T) and make sure there is a connection 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. 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_14116.dld*

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

7. The upgrade should take approximately 4 minutes.

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**Enhancements**

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Various video and USB Fixes and Enhancements

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**Fixes**

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Various video and USB Fixes and Enhancements

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**Notes**

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1. The receiver supports one USB Keyboard and one Mouse.
2. Multimedia Keyboard keys are not supported.
3. For Keyboards with both Touch-pads and Eraser heads, only the Touch Pad is supported.
4. Keyboard LEDs are not supported when the OSD is active.
5. Should a mass storage device contents appear empty, it is recommended to hot plug the device.
6. 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
720 x 480 @ 60Hz
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
1440 x 900 @ 60Hz
1600 x 1200 @ 60Hz
1920 x 1200 @ 60Hz

7. Use of memory key Hotplug is supported. However, it is recommended that the PC '*Safe Removal*' feature is used prior to the removal of memory key devices.
8. In the event that the Transmitter or Receiver unit is removed and reconnected to the Ethernet network, it is recommended that the unit is power cycled.
9. This revision supports extender mode only.