**DTX5000**
**Firmware Revision 1.0.2.0**
**Release Notes**
**November 30th, 2006**

This document outlines:
1. DTX5000 System Firmware Version and Compatibility
2. Important Installation Notes
3. How to update Firmware?
4. Enhancements
5. Fixes
6. Notes

==============================================================================
**DTX5000 System Firmware Version and Compatibility**
**Version 1.0.2.0**
==============================================================================
Version 1.0.2.0 of DTX5000 Extender System firmware is intended to be used in a system with the following DTX5000 system-component revisions:

| | | |
|---|---|---|
| -DTX5000-T | Application Revision | 1.1.0.0 |
| | Boot Revision | 1.9.0.2 |
| | FPGA Revision | 1.1.1.41 |
| | | |
| -DTX5000-R | Application Revision | 1.1.0.0 |
| | Boot Revision | 1.9.0.2 |
| | FPGA Revision | 2.1.1.22 |

Version 1.0.2.0 of DTX5000 System is compatible with the following revisions:
  - Beta version 1.0.0.20
  - 1.0.1.0

==============================================================================
**Important Installation Notes**
==============================================================================
Upgrade the DTX5000-T to 1.0.2.0 before the DTX5000-R
==============================================================================
**How do I update the firmware on my DTX5000 System?**
==============================================================================
**Note: The DTX5000-T MUST be upgraded first.**

**Procedure 1 - Serial port upgrade**:
1. Power up the Transmitter (DTX5000-T) and Receiver (DTX5000-R) 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_1020.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_1020.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 DTX5000-T and DTX5000-R Release version code should now read 1.0.2.0 and should be checked using the console menu.


**Procedure 2 - Upgrade using HTTP**:
1. Power up the Transmitter (DTX5000-T) and Receiver (DTX5000-R) 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_1020.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_1020.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 DTX5000-T and DTX5000-R release version should now read 1.0.2.0 and should be checked using the console menu.


=============================================================================
**Enhancements**
=============================================================================
   None.



=============================================================================
**Fixes**
=============================================================================

1. Previous versions had an intermittent video bug where on a small subset of units, the video could scroll to the right.

```
================================================================================
                                    Notes
================================================================================
```

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.  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