

**ECMS4000R**  
**Firmware Revision 1.4.1.16**  
**Release Notes**  
**February 14th, 2008**

This document outlines:

1. ECMS4000R System Firmware Version and Compatibility
2. Important Installation Notes
3. How to Upgrade Firmware
4. Enhancements
5. Fixes
6. Notes

---

---

**ECMS4000 System Firmware Version and Compatibility**  
**Version 1.4.1.16**

---

---

Version 1.4.1.16 of ECMS4000 System firmware is intended to be used in a system with the following system-component revisions:

- ECMS4000T Revision 1.4.1.16
  - Application Revision 1.2.4.42
  - Boot Revision 1.12.0.0
  - FPGA Revision 3.1.1.21
- ECMS4000R 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

---

---

**Important Installation Notes**

---

---

When upgrading, it is important to upgrade ECMS4000T Transmitters **before** upgrading ECMS4000R Receivers.

---

---

**How to Upgrade Firmware**

---

---

**The ECMS4000R can be upgraded using a serial or http upgrade procedure, procedure 1 and 2 respectively.**

1. Remove any attached vMedia devices (memory key or CD/DVD ROM) prior to commencing an upgrade or Downgrade

***Procedure 1 - Serial port upgrade of ECMS4000R***

1. Power up the Receiver (ECMS4000R)
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 1 to access the *Receiver menu*. If the password option is enabled, you will be prompted for a password.

4. From the *Receiver menu* select option 3; “*Firmware Management*”.
5. Choose *Receiver Flash Upgrade Via XMODEM*.
6. Specify the location of the upgrade file *RX0000\_14116.dld* and initiate the file transfer. The upgrade should be completed in approximately 15 minutes.

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

1. Power up the Receiver (ECMS4000R)
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 1 on the *Main Menu* to access the *Receiver menu*. If the password option is enabled, you will be prompted for a password.
4. From the *Receiver menu* select option 3 “*Firmware Management*”.
5. Choose *Receiver 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/RX0000\\_14116.dld](http://192.168.0.1:8080/RX0000_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.

### **Enhancements**

Various video and USB Fixes and Enhancements

### **Fixes**

Various video and USB Fixes and Enhancements

### **Notes**

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. Connect USB keyboard and Mice to the bottom USB ports only. Connect vMedia devices to the top USB ports only.
10. This revision supports extender mode only.