

# **MDX420 Firmware**

## **Upgrade Procedure**

**AN220  
Rev. 1.1**



<b>MDX420 Firmware Upgrade Procedure AN220 - Record of Revisions</b>
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Revision Level	Date	Reason for Change
1.0	01-22-08	Initial Release
1.1	01-24-08	Changed typical file name from MC.ZIP to F05804xx.zip, where xx is the revision of software

**Revision Approval**

Revision Level	Engineering Approval Printed Name, Date, and Signature	Production Approval Printed Name, Date, and Signature
1.1		

## MDX420 Firmware Upgrade Procedure

### 1.0 Introduction

The purpose of this document is to provide the instructions for the manual firmware upgrade of the MDX420 Gateway.

### 2.0 Required Items

1. PC with the following:
  - a. Compact Flash Programmer
  - b. Unzip Program (including but not limited to such as winzip or equivalent)

### 3.0 Procedure (Manual Compact Flash Programming)

1. Locate the power switch (at the rear of the unit) and shut off power.
2. Gently remove the Compact Flash Memory Card, by pulling gently on the Card to remove it (located in the rear of the unit).

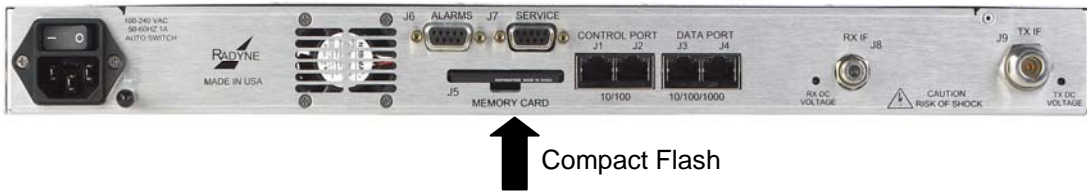


Figure 1 – Location of Compact Flash card on the MDX420

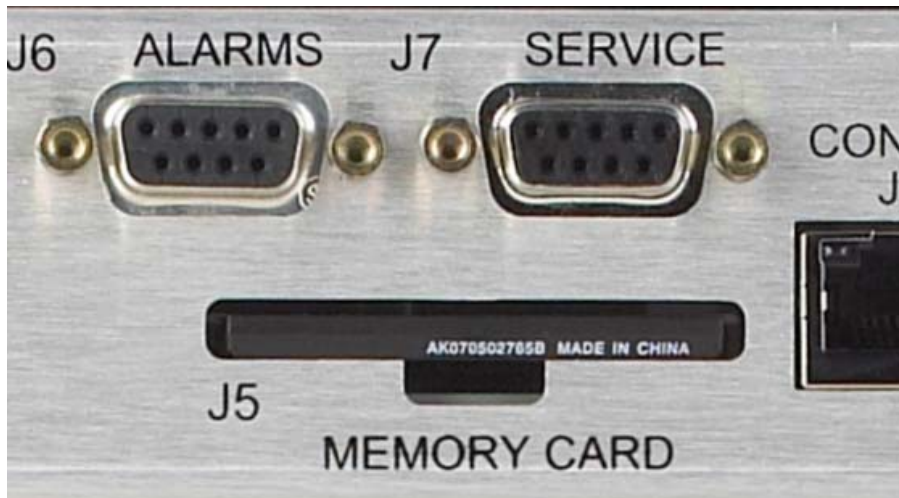


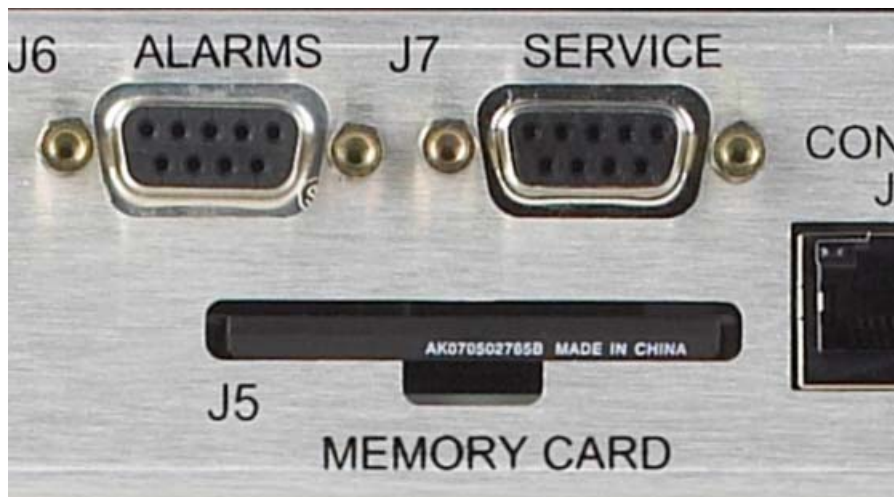
Figure 2 – Memory Card position (J5)

3. Connect the USB Compact Flash Reader/Programmer to your computer USB port.

**Note:** MDX420 firmware is distributed as a zip file via e-mail, FTP download or compact disk. The name of the file is typically F05804xx.zip, where xx is the software revision.

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4. Create a folder on your computer's hard drive named \MDX420\F05804xx (where xx is the latest revision of firmware, for example \MDX420\F05804-A). Copy the attached F05804\_A.zip file to that newly created folder. Also create a folder called \MDX420\F05804yy (where y is the previous revision of firmware) to store the previous revision (in the event that it is needed later).
5. Extract the zip file into the \MDX420\F05804xx folder. The zip file will extract into a folder called \MDX420\F05804xx\MC. This folder contains the MDX420 firmware image.
6. Insert the compact flash into the Compact Flash Reader/Programmer.
7. The compact flash will appear as a regular drive on your computer. The easiest way to find the compact flash drive is to use windows explorer and look under "My Computer."
8. Use the windows explorer to open the compact flash drive. A directory called \MC will be visible.
9. Copy the old \MC folder with drag and drop into the \MDX420\F05804yy folder on your hard drive to back up the old firmware revision.
10. Erase the contents of the compact flash card by selecting the "MC" directory in the root of the compact flash card and deleting it and all sub folders.
11. Copy the \MDX420\F05804xx\MC onto the compact flash by dragging and dropping the MC directory in \MDX420\F05804xx (select the MC directory only), and dragging the MC directory onto the compact flash drive.
12. Wait a few moments while the Compact Flash Reader/Programmer writes to the compact flash. The LED on the reader/programmer will flash for several seconds. Wait for approximately 30 seconds after the last flash, then remove the compact flash card from the reader and insert it in to the MDX420 as Shown in Figure 3 and gently press until fully seated.



**Figure 3 – Memory Card position (J5)**

13. The next time the MDX420 is powered up, it will contain the new firmware. The new firmware can be verified on the dumb terminal at power up. The new firmware will read F05804xx (where xx is the latest revision of software).