



PA9xx Firmware Upgrade Instructions

NOTE – failure to correctly apply the upgrade files may result in the PA900 being inoperative and may require returning to the factory. If this occurs please contact the factory for support.

NOTE – a full upgrade of a PA900 requires upgrading 3 files. Do NOT power cycle the PA900 between upgrading files, only after upgrading all 3 files.

1. Copy the upgrade files to a USB Thumb Drive root directory. These files should be named PA900.S19, PA900.HEX and MLO (this last file must be with no extension, some email systems add an extension to this, if so it must be manually renamed without the extension).
2. Insert the USB Thumb Drive into the PA9xx front-panel USB port and ensure it attaches correctly.
3. Press the USB Drive information area on the screen adjacent to the USB drive. This will open the file export/import screen.
4. Press the IMPORT FILE button on the right side of the screen. This will change the screen to the import file screen.
5. Press the UPDATE button in the IMPORT area of the screen. The SELECT FILE area will list the files available on the drive for updating the PA9xx. Check that the BOOT, FPGA and FIRMWARE file buttons are shown in the SELECT FILE area – if any of these buttons are not present or has the incorrect date then the files were not copied correctly onto the USB drive.
6. Press the BOOT button in the SELECT FILE area. The PA900 will now apply the boot update (the MLO file – this only takes a second or so). DO NOT REMOVE POWER FROM THE PA900 DURING THE FILE TRANSFER.
7. When completed successfully, press the UPDATE button in the IMPORT area of the screen. The SELECT FILE area will list the files available on the drive again for updating the PA9xx.
8. Press the FPGA button in the SELECT FILE area. The PA900 will now apply the FPGA update (the PA900.HEX file – this can take many seconds). DO NOT REMOVE POWER FROM THE PA900 DURING THE FILE TRANSFER.
9. When completed successfully, press the UPDATE button in the IMPORT area of the screen. The SELECT FILE area will list the files available on the drive again for updating the PA900.
10. Press the FIRMWARE button in the SELECT FILE area. The PA900 will now apply the firmware update (the PA900.S19 file – this can take many seconds). DO NOT REMOVE POWER FROM THE PA900 DURING THE FILE TRANSFER.
11. When completed successfully, press and hold the POWER button until the PA900 powers down.
12. Wait a few seconds and then turn on the PA900. The PA900 will now be using the updates just applied.
13. When a significant upgrade has been performed, sometimes there may be an error message shown regarding corrupted configuration files. The PA900 should be power cycled again by using the POWER button should this occur. In extreme circumstances you may need to re-configure the PA900.