



SAF CFM Series Microwave Radio System

Indoor Unit Management Software Update Guide

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Overview

This guide provides the user of the CFM series equipment with the information required to update the management software which is stored in the EEPROM on the management controller.

The software upgrade is performed by loading the newer version of management software in the EPROM. The software is uploaded from an ASCII terminal or a PC running terminal emulation software via the RS232 management console port (RS232 port connector located at the rear side of IDU). Prior to upload the new management software, the current content of management software in the Flash EPROM must be erased.

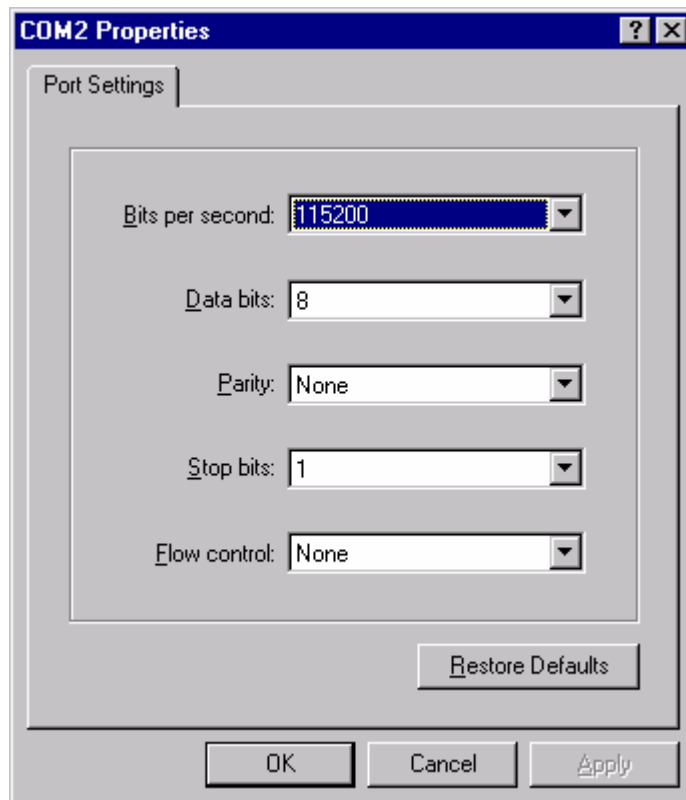
Note: This guide describes the upgrade procedure assuming the user has a PC with the Windows Hyper Terminal program installed (most common) however the procedures described hereafter are correct if using other terminal emulation programs as well.

Upgrading Management Software

After connecting a console terminal to the RS232 management port, take the following steps to perform the upgrade.

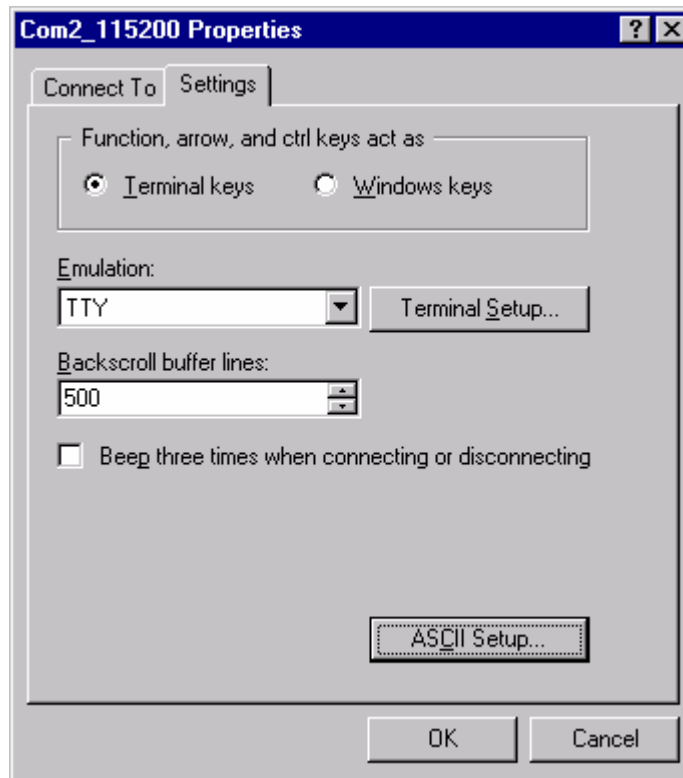
Step 1

Run the MS Hyper Terminal and configure the following parameters for a chosen COM port: 115200 baud, 8 data bits, no parity, and 1 stop bit, no flow control.



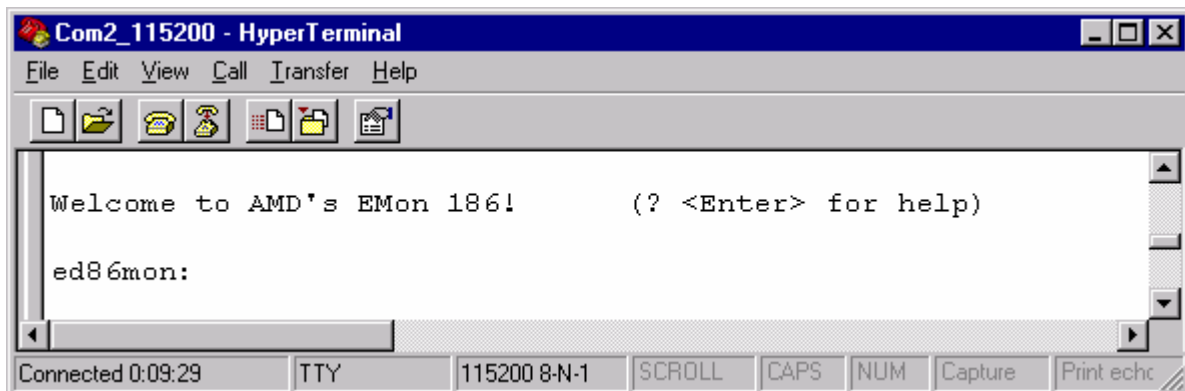
Step 2

Configure terminal emulation parameters.



Step 3

Unplug power supply or use the hidden reset button (on the rear panel) to restart the IDU and, while IDU is booting up, press the "A" key on the keyboard several times (over 10 times) until the message appears as shown in the picture below. While pressing the "A" key (note!: holding the key down won't work) the EPROM Monitor program stored in the Flash EPROM will execute and the port speed auto-detection will be carried out.

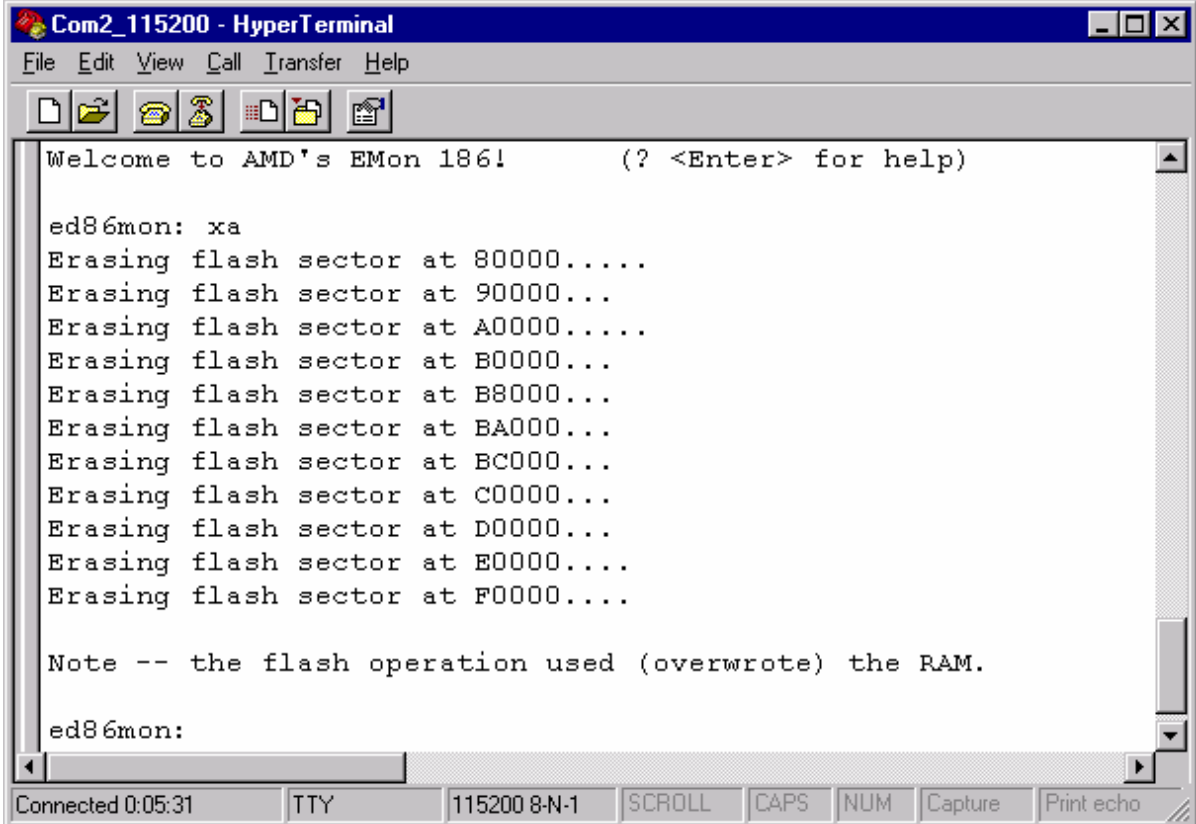


When message appears press "Enter" two times.

Step 4

Enter the command "xa" to erase the current contents of management software from Flash EPROM. Note that this command will not erase the EPROM monitor program (which currently allows to perform the upload) but only the section of management software.

Note: While the new software will not be loaded, the management system will not work!



The screenshot shows a HyperTerminal window titled "Com2_115200 - HyperTerminal". The window contains the following text:

```
Welcome to AMD's EMon 186!      (? <Enter> for help)

ed86mon: xa
Erasing flash sector at 80000.....
Erasing flash sector at 90000...
Erasing flash sector at A0000.....
Erasing flash sector at B0000...
Erasing flash sector at B8000...
Erasing flash sector at BA000...
Erasing flash sector at BC000...
Erasing flash sector at C0000...
Erasing flash sector at D0000...
Erasing flash sector at E0000....
Erasing flash sector at F0000....

Note -- the flash operation used (overwrote) the RAM.

ed86mon:
```

The status bar at the bottom of the window displays: "Connected 0:05:31", "TTY", "115200 8-N-1", "SCROLL", "CAPS", "NUM", "Capture", and "Print echo".

Step 6

Restart the IDU and verify the result.

Notes

- When the IDU boots up, announcements are send off through the RS232 with 19200 baud, however when loading a new software in Flash EPROM the 115200 baud should be selected, although it can also be done at 19200 or less baud rate, it will take more time to accomplish.
- In case if encounter error during the upload, repeat steps 3 - 6.
- If the management system after the new software upload does not work properly (e.g., something fails to oerate) it is still possible to restore the old software version erasing the current one.

SAF Tehnika Contacts

Most up to date contacts of SAF Tehnika A/S could be found at Web site www.saftehnika.com.

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