
▲ MFSYS25 Emergency CMM FW Recovery ▲

If the operational firmware image of the Intel® Modular System MFSYS25 Management Module (CMM) is corrupt, the CMM will be unable to boot to Linux. The CMM contains Emergency Boot Firmware (EBF) that allows the administrator to update the operational image regardless of the state of the current image. The following process will upload a new operational code image to the CMM.

Emergency Firmware Recovery

To access the Emergency Boot Firmware, perform the following steps:

1. Connect a straight through serial cable to the CMM and the host PC.
2. Connect the CMM and the host PC via a cross over cable or Ethernet cable.
3. In the Connect to Window, select the COM port for your serial cable. Configure the host PC's serial console software (HyperTerminal) with the following parameters:
Baud Rate: 115200
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: None
4. Launch HyperTerminal session
Pull CMM out and reinsert it
Press Enter on Console system to stop CMM in order to get to CMM EBF> prompt.
5. EBF command prompt "CMM EBF>" is displayed on the serial console after a boot failure. Type the commands in bold in the following steps:
6. Get the current external IP address of the CMM.
CMM EBF>**get net ext ip**
Network interface "ext" has IP address xxx.xxx.xxx.xxx
Status: OK
7. Check the version of the EBF
CMM EBF>**get version**
Version: 1.21
8. On the host PC, FTP to the IP Address of your CMM.
c:\>ftp xxx.xxx.xxx.xxx

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9. Login with the username "admin".

If you haven't changed the admin password then use one of these defaults:

EBF version 1.20 and older: "default"

EBF version 1.21 and newer: "admin"

```
Connected to xxx.xxx.xxx.xxx.  
220 Connection Ready  
User (xxx.xxx.xxx.xxx:(none)): admin  
331 Enter password  
Password:admin  
230 Logged in  
ftp>
```

10. Ensure CMM_Core.zip is located in the root directory of console system (host PC).

11. Enable binary transfer mode and progress monitoring.

```
ftp> bin  
200 Type Binary  
ftp> hash  
Hash mark printing On  ftp: (2048 bytes/hash mark) .
```

12. Upload new firmware image. ****Destination filename must be CMM_Core.zip.****

```
ftp> put CMM_Core.zip  
200 Port set  
125 File Open for Write
```

13. When transfer is complete the following message is displayed on the FTP client. Close the FTP session.

```
250 File Written  
ftp> quit  
221 Logging Off
```

14. On the serial console type "exit" to boot the new firmware image.

```
CMM EBF>exit  
CMM EBF>Mounting local storage: OK!  
Searching for firmware bundle...  
Processing firmware bundle: CMM_Core.zip  
...
```