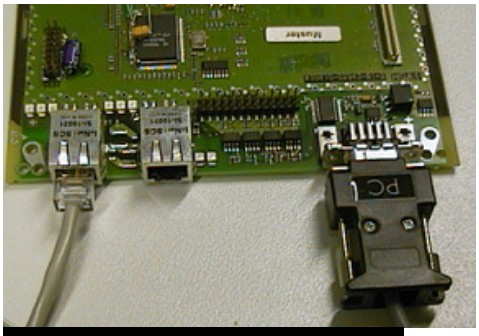
Programming of Loadware image to STMI2-SAPP boards

After assembly of STMI2-SAPP board and programming of Firmware image and module test, the current loadware image has to be programmed to the board.
Loadware is brought to the board via LAN network connection.

Requirements:
- PC with FTP or TFTP server and V24/RS232 interface.
- Network (LAN) cabling to the board (crossover cable also possible).

Setup:
Plug board into HiPath system or adaptor.
- Connect V24/RS232 from PC to Board
- Connect network cable from PC to Board (direct connection needs crossover cable) or via Hub, Switch, ...



(Picture from HXGS3 board)

- Switch on System or reset board. Stop at Firmware countdown.

```
Press any key to stop auto-boot...
 3
```

The default parameters of the board after manufacturing are:

```
[HG 1500 V3 Boot CLI]: p

boot device          : tffs/
unit number          : 0
processor number     : 0
file name            : SW_IMAGE.001
inet on ethernet (e) : 10.144.233.63:ff000000
flags (f)            : 0x0
other (o)            : emac
```

- Make sure FTP/TFTP server is running and loadware image is present. (Filenames for example HI-G15.S2.003-001.inst)

HI-G15.35.005.inst	8.448 KB	INST-Datei
HI-G15.52.003-001.inst	8.776 KB	INST-Datei

Install SAPP Loadware

- Change bootline to load SAPP software from (T)FTP server

```
[HG 1500 V3 Boot CLI]: c

'.' = clear field;  '-' = go to previous field;  ^D = quit

boot device          : tffs/0 emac0
processor number     : 0
host name            :
file name            : SW_IMAGE.001 HI-G15.52.003-001.inst
inet on ethernet (e) : 10.144.233.63:ff000000
inet on backplane (b):
host inet (h)        : 10.144.233.64
gateway inet (g)     :
user (u)             : manufacturing
ftp password (pw) (blank = use rsh): manufacturing
flags (f)            : 0x0
target name (tn)     :
startup script (s)   :
other (o)            : emac
```

- Now load image using “w” command:

```
Total TFFS size: 31266816 bytes   /   free: 27009024 bytes

SW_IMAGE.001
 Input a new suffix SW_IMAGE.x: 2

 New image name: SW_IMAGE.002 ok (y/n)? y

boot device          : emac
unit number          : 0
processor number     : 0
file name            : HI-G15.52.003-wid.inst
inet on ethernet (e) : 192.168.147.151:ffffff00
host inet (h)        : 139.21.136.170
gateway inet (g)     : 192.168.147.1
user (u)             : hxg3_a
ftp password (pw)    : hxg3
flags (f)            : 0x0
other (o)            : emac

2778588 bytes
```

- Confirm “y” and do a “T clidownl”

```
Total TFFS size: 31266816 bytes   /   free: 18022400 bytes

Change bootline to the loaded image
and write bootline to TFFS (y/n)? y
```

```
[HG 1500 V3 Boot CLI]: T

Enter filename (max. 40 character): clidownl
```

- Now start installation with “@”
Board needs **two restarts** and will ask whether you want *initial download* or *upgrade*. Answer “1” for *initial download* and “y” for formatting the FLASH.
- After installation, the SAPP software is ready. Reboot or stop in advance at Firmware CLI. It is not necessary to start up the software at the last step as we need to enter the Firmware CLI once more.

```
[HG 1500 V3 Boot CLI]: @
```

After successfully loading this file, the board is ready.