

## Installation of the modem V9x HAM under SuSE 9.0 (Kernel 2.4.21):

### Requirements:

- **Do not use the delivered driver 4.51 (in SuSE 9.0) for this modem**
- Intel driver for the modem ham (*Intel-v92ham-453.tgz*). Look at <http://linmodems.technion.ac.il/resources.html> for downloading.
- Install the package **kernel-source**
- Install the package **minicom** for testing the modem
- Log in as **root**

### Installation:

1. Delete the delivered driver of SuSE 9.0 if it is installed (Delete the software package under hardware – modem)
2. Copy the driver into the directory **/usr/src**.
3. Go into this directory **/usr/src**
4. Unzipped the driver with the command **tar – xzvf [archivename].tgz**
5. This will create the a new directory called **Intel...** (e.g. Intel-v92ham-453)
6. Change into this directory.
7. Set the commands  
**make clean**  
**make ham**  
**make install**  
If you get the error “make command not found” install the kernel-sources!
8. Now you can find the device ham at **/dev**. The driver also creates a link from **/dev/modem** to **/dev/ham** for using KPPP.

### Check the functionality:

1. MINICOM:  
*minicom* is not a package of the standard installation and has to be installed additional. Start the program with the command *minicom –s*. With the arrow keys and the return taste go to “*serial port setup*” and change the entry for *A* into **/dev/modem** and for *E* into **115200 8 n 1** . Change these settings with “*save setup as dfl*” and click on “*exit*”. Now the terminal program is starting and you can communicate with modem with at commands. Check the country settings with **ATI12** and change it with the command **AT+GCI=xx** (xx= B4 for UK, 7B for the Netherlands, 3D for France, B5 for USA). Now try to make a connection with the command **ATDT[phone number of a provider][enter]**.
2. Kinternet/wvdial connection:  
Configure the modem with **YAST**. It is important to choose “**others (not recognized)**” because otherwise SuSE wants to install the package for the 4.51 driver if you choose V9x HAM modem. Configure this entry “others” with the baud rate **115200** and the Init1 **AT&F**. Then configure your provider. Now the Internet connection should function.