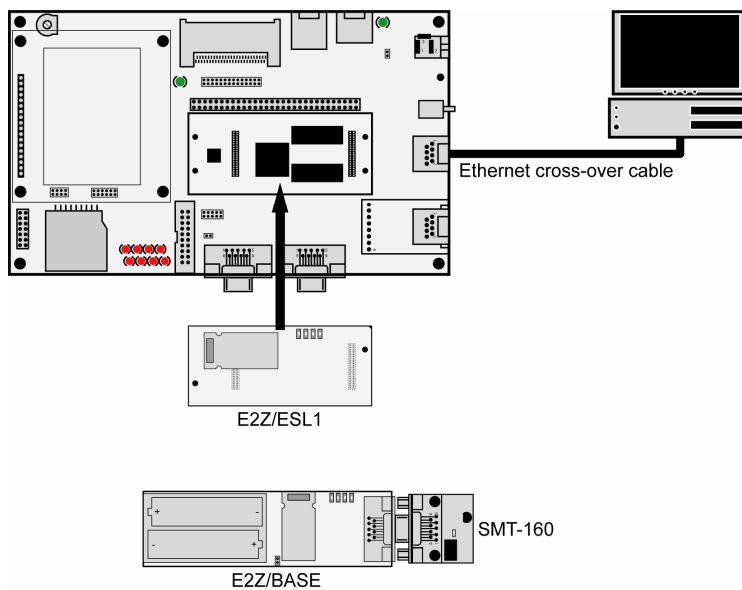


How to use the WSN (Wireless Sensor Network) evaluation hardware parts.

The DIL/NetPC ADNP/9200 starter kit DNP/SK27 comes with some additional WSN evaluation hardware parts: 1. The E2Z/ESL1 add-on board for the ADNP/9200 ESL connector. 2. The battery-driven WSN sensor board E2Z/BASE. The E2Z/BASE board is equipped with two AA-size batteries and the temperature sensor SMT-160.

- **1. Step:** Make sure that the E2Z/ESL1 (ESL = Expansion Sandwich Layer) expansion board is installed on the top of the DIL/NetPC ADNP/9200. Make also sure that the E2Z/BASE board is equipped with two AA-size batteries and that the temperature sensor SMT-160 is connected to the E2Z/BASE.



The evaluation of the WSN (Wireless Sensor Network) hardware needs an Ethernet LAN connection between the DNP/EVA11 evaluation board and your PC.

- **2. Step:** Setup a Telnet-based session to the ADNP/9200. Then change the directory:

```
cd /flash
```

```

Telnet 192.168.0.126
- SSV Embedded Linux - Version 0.62.26-ssv2
emblinux login: root
Password:
[root@emblinux /root]$cd /flash
[root@emblinux /flash]$ls -al
drwxr-xr-x   5 root   root         0 Jan  1 00:00 .
drwxr-xr-x  18 root   root       576 Sep 15 2006 ..
-rw-r-----   1 root   root       575 Jan  1 12:00 autoinit.sh
-rw-r-----   1 root   root       620 Jan  1 12:00 autostart.sh
-rwxr-xr-x   1 root   root     5672 Jan  1 12:00 lcdtxt_at91
-rwxr-x--x   1 root   root    178044 Jan  1 12:00 minicom
-rw-r-----   1 root   root      235 Jan  1 12:01 minirc.dfl
drwxr-x---   2 root   root         0 Jan  1 12:00 modules
-rw-r-----   1 root   root      258 Jan  1 12:01 mountcf.sh
-rw-r-----   1 root   root     395 Jan  1 12:01 mountmmc.sh
drwxr-xr-x   2 root   root         0 Jan  1 1970 www
[root@emblinux /flash]$_

```

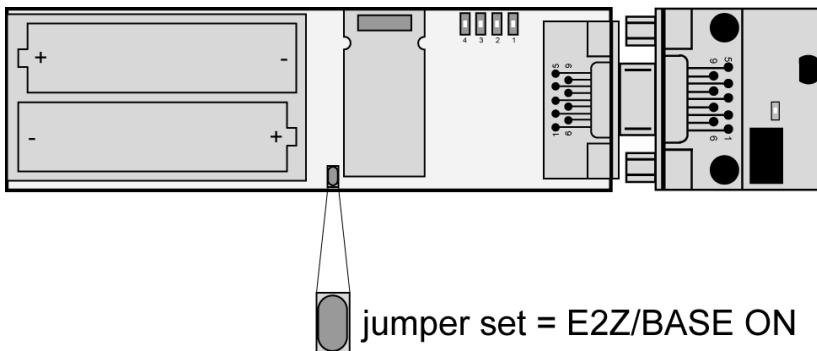
- **3. Step:** The ADNP/9200 directory */flash* contains a preinstalled *minicom* terminal emulation program and some other files. Please run this program with the following command line:

```
./minicom
```

Then turn the E2Z/BASE power on. After that the E2Z/BASE transmits the current temperature two times per second in an ASCII string format. The *minicom* terminal emulation program shows each temperature value within a separate line.



Please note: To turn the E2Z/BASE on, please set the jumper. To turn the E2Z/BASE off, please remove the jumper.



That is all.