

smctr.txt

Text File for the SMC TokenCard TokenRing Linux driver (smctr.c).

By Jay Schulist <jschlst@samba.org>

The Linux SMC Token Ring driver works with the SMC TokenCard Elite (8115T) ISA and SMC TokenCard Elite/A (8115T/A) MCA adapters.

Latest information on this driver can be obtained on the Linux-SNA WWW site. Please point your browser to: <http://www.linux-sna.org>

This driver is rather simple to use. Select Y to Token Ring adapter support in the kernel configuration. A choice for SMC Token Ring adapters will appear. This driver supports all SMC ISA/MCA adapters. Choose this option. I personally recommend compiling the driver as a module (M), but if you would like to compile it statically answer Y instead.

This driver supports multiple adapters without the need to load multiple copies of the driver. You should be able to load up to 7 adapters without any kernel modifications, if you are in need of more please contact the maintainer of this driver.

Load the driver either by lilo/loadlin or as a module. When a module using the following command will suffice for most:

```
# modprobe smctr
smctr.c: v1.00 12/6/99 by jschlst@samba.org
tr0: SMC TokenCard 8115T at Io 0x300, Irq 10, Rom 0xd8000, Ram 0xcc000.
```

Now just setup the device via ifconfig and set and routes you may have. After this you are ready to start sending some tokens.

Errata:

- 1). For anyone wondering where to pick up the SMC adapters please browse to <http://www.smc.com>
- 2). If you are the first/only Token Ring Client on a Token Ring LAN, please specify the ringspeed with the ringspeed=[4/16] module option. If no ringspeed is specified the driver will attempt to autodetect the ring speed and/or if the adapter is the first/only station on the ring take the appropriate actions.

NOTE: Default ring speed is 16MB UTP.

- 3). PnP support for this adapter sucks. I recommend hard setting the IO/MEM/IRQ by the jumpers on the adapter. If this is not possible load the module with the following io=[ioaddr] mem=[mem_addr] irq=[irq_num].

The following IRQ, IO, and MEM settings are supported.

IO ports:

0x200, 0x220, 0x240, 0x260, 0x280, 0x2A0, 0x2C0, 0x2E0, 0x300,
0x320, 0x340, 0x360, 0x380.

IRQs:

2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15

smctr.txt

Memory addresses:

0xA0000, 0xA4000, 0xA8000, 0xAC000, 0xB0000, 0xB4000,
0xB8000, 0xBC000, 0xC0000, 0xC4000, 0xC8000, 0xCC000,
0xD0000, 0xD4000, 0xD8000, 0xDC000, 0xE0000, 0xE4000,
0xE8000, 0xEC000, 0xF0000, 0xF4000, 0xF8000, 0xFC000

This driver is under the GNU General Public License. Its Firmware image is included as an initialized C-array and is licensed by SMC to the Linux users of this driver. However no warranty about its fitness is expressed or implied by SMC.