IBM Token-Ring Adapter

Most of the configuration for IBM Token-Ring adapters is accomplished by setting dip switches on the adapter itself. See the adapter installation documentation for a description of the dip switch settings. The values selected in Configure should match those which correspond to the dip switch settings on the adapter.

The following describes each parameter:

Port Addresses
The range of I/O ports used to communicate with the adapter. There are only 2 possible ranges for this adapter, **0xa20-0xa23** (Primary Adapter) and **0xa24-0xa27** (Alternate Adapter). A single dip switch on the adapter specifies which range it will use and the range in Configure must match or the driver will abort at startup.

IRQ
The interrupt used by the adapter. NEXTSTEP does not support interrupt level 2, so the only valid interrupt levels are **3**, **6**, and **7**. If configured, interrupt level 6 will always be used by the floppy driver and interrupt level 7 will always be used by the onboard parallel port driver. The value specified in Configure must match the value of the dip switch settings or the driver will abort at startup.

Mapped RAM
The adapter documentation refers to this parameter as Shared RAM. For the IBM Token-Ring 16/4 and IBM Token-Ring 16/4 ISA-16, the size of the Shared RAM region is dip switch configurable. Be sure to set your dip switches for a 16K Shared RAM region. This region must be located on a 16K boundary and must not conflict with any

other mapped memory. The driver uses the location specified in Configure.

Mapped ROM
The adapters ROM region is always 8K in length and must be located on an 8K boundary. The location of the mapped ROM is set with dip switches on the adapter and the value in Configure must match that of the switches and must not conflict with any other mapped memory region or the driver will abort at startup.

Connector
Specifies which connector be used to communicate with the network, the shielded twisted pair (STP) connector or the unshielded twisted pair (UTP) connector. This setting is only relevant for the IBM Token-Ring 16/4 ISA-16 adapter since it is the only adapter with both connectors. For the other adapters the UTP button is disabled.

Ring Speed
Specifies the speed at which data will traverse the ring, 4 or 16 Mbps. This setting should match the dip switch Data Rate setting. The driver will always use the dip switch setting if they don't match.

Early Token Release
Early Token Release (ETR) is available when running at 16 Mbps. There is no dip switch configuration for this parameter, so the driver always uses the value set in Configure.