

RapidFire 3530 HSTR Server Adapter is a 32 bit PCI based adapter that provides 100 Mbps Token-Ring connections to a switch using the new HSTR standard. The connection to the switch is achieved by a 100 ohm Category 5 UTP cable.

As shown in figure 1, the adapter is build up around the Texas Instrument ThunderLAN TNETE100 10/100 Mbps LAN controller chip which implements a complete PCI interface, 10/100 Mbps CSMA/CD protocol handlers, on-chip FIFO's and an IEEE 802.3u standard MII interface for connection to the Physical media dependent sub layer, PMD.

The LAN front-end consists of a Level One MII compliant PHY with a 100BaseTx interface.

A FPGA, is located between the ThunderLAN and the PHY.

The TNETE100 controller utilizes a serial 256 byte EEPROM for storing configuration data

