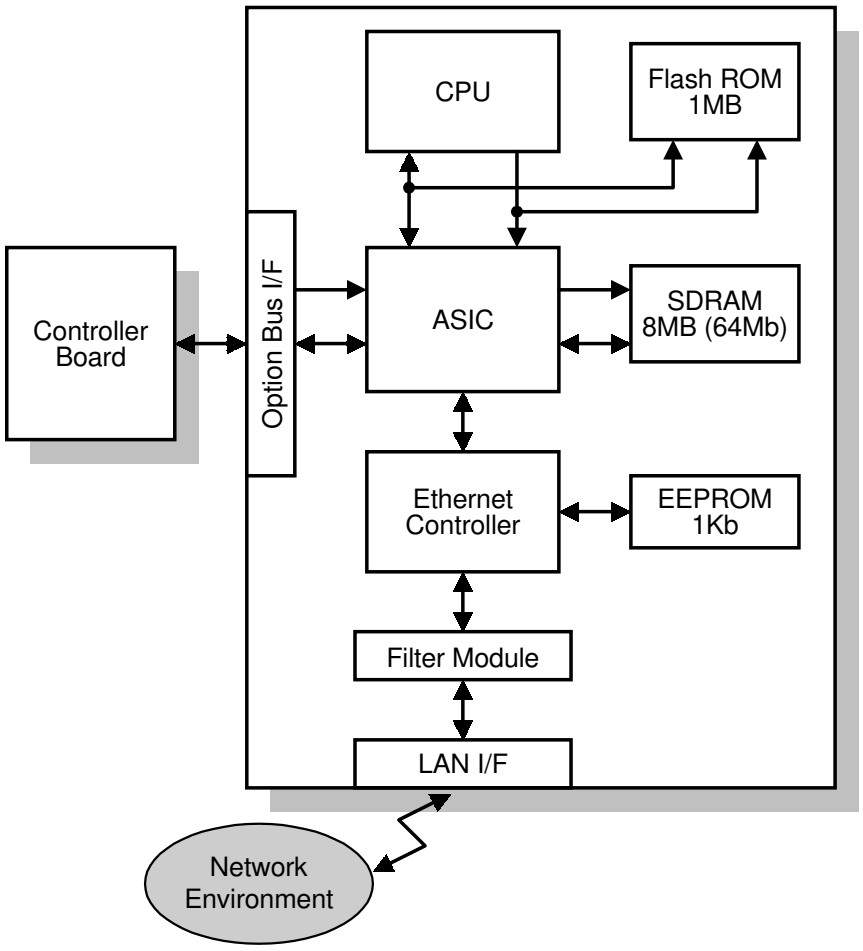
NIB C4000

1. OVERVIEW

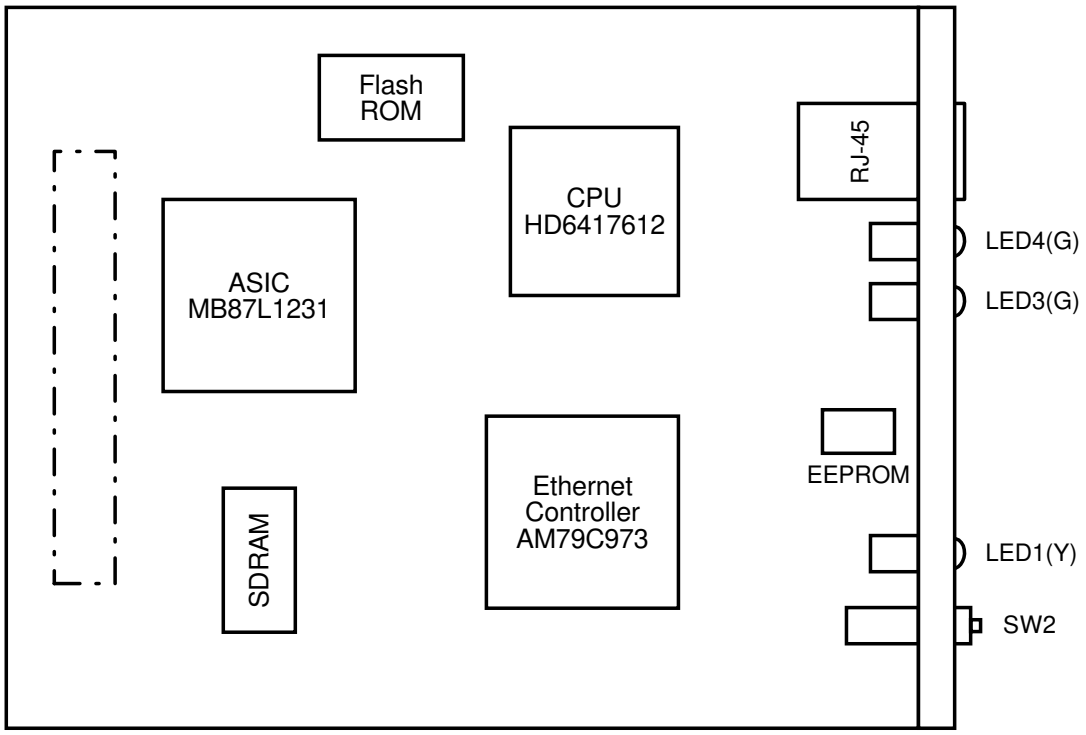
1.1 BLOCK DIAGRAM



G063O713.WMF

1.2 COMPONENT LAYOUT

1.2.1 NETWORK INTERFACE BOARD DIAGRAM



G063O705.WMF

1.2.2 DEVICES

Device	Description
CPU	HD6417612RF
ASIC	MB87L1231
Flash ROM	MBM29LV800BA-70PFTN (8 Mbit)
SDRAM	64Mbit: 100MHz
EEPROM	M93C46-WMN6 (1kbit)
Ethernet Controller	AM79C973KC/W

1.3 DETAILED SECTION DESCRIPTIONS

1.3.1 OVERVIEW

This network board can manage both 100Base-TX and 10Base-T. It has a maximum data transfer speed of 100Mbps.

The auto-negotiation function automatically switches the communication speed.

The controller board supplies the power source (+5V) and provides the reset signal. The controller board communicates with the network interface board through the option I/F connector.

The functions of the LEDs and the switch are as follows.

	Functions
LED1	Displays the operating status. ON: Ready, OFF: Busy
LED2	Not used
LED3	Displays the LAN Type. ON: 100 Base-TX, OFF: 10 Base-T
LED4	Displays the link status. ON: Link safe, OFF: Link failure or Link disable
SW1	Resets the NVRAM on the network interface board. **NOTE:** This board has the hardware to execute a “Summary Printout”. However, it does not function on this printer due to the controller specifications.

1.3.2 NVRAM RESET

SW1 resets the NVRAM on the network interface board.

This board has the hardware to execute a "Summary Printout". However, it does not function on this printer due to controller specifications.

NVRAM Reset Procedure

This procedure resets all the network settings to the defaults.

- IP address, Subnet Mask, Default Gateway Address, Access Control Mask, Network Boot, Frame Type (NetWare), Active Protocol, and so on

1. Turn on the main switch while pressing SW1. Keep pressing SW1 for 15 seconds.
2. Release SW1 for 3 seconds, press it again for 3 seconds, and then release it.
3. Turn the main switch off/on to complete the NVRAM reset procedure. There is a margin of less than 1 second for error. Use a watch to measure the time periods as accurately as possible.
4. Print out the configuration page, and then check the settings. If the procedure failed, the previous settings remain. Repeat the above procedure until the old settings have been cleared.