CAUTION

Power must be removed from the module whenever you are removing or installing any board, including an I/O paddle board. Be sure that an I/O paddle board is installed in the correct slot; some boards have only one slot that they can be installed in without causing damage. I/O paddle boards plugged into the wrong slot can cause traces on the backplane to burn open.

2.2.11 Network Gateway

History Modules upgraded from previous releases with upgrade kit MP-ZPROC3 will have one of the following configurations.

Table 2-16 — Network Gateway (NG) Upgraded to R500 (Non CE Compliant)

Type	High Performance Only	
Slot	Front	Rear
5		
4 *Note 14*	NGI	NGI ** or NG FOM***
3	NGI	NGI ** or NG FOM***
2	K2LCN-2	LCN I/O
1		

Note 14 The NGI and NGIO in Slot 4 are optional. They are present for a redundant cable NG.
** NGI is the EC replacement for the NGI I/O board.
*** NG FOM is the EC replacement for the NG fiber optic I/O board.

2.2.12 Network Gateway (CE Compliant)

This module is only available in a Dual Node Module. Refer to *Dual Node Module Service*.

CAUTION

Power must be removed from the module whenever you are removing or installing any board, including an I/O paddle board. Be sure that an I/O paddle board is installed in the correct slot; some boards have only one slot that they can be installed in without causing damage. I/O paddle boards plugged into the wrong slot can cause traces on the backplane to burn open.

2.2.13 Network Interface Module Configuration

The PNM, PNM I/O, and PNI I/O boards and the mini-coax can be replaced by the NIM MODEM board. This is done by installing the NIM MODEM Field Replacement Kit, 51195760. The new NIM MODEM board is shown as an alternate configuration in Tables 2-17 and 2-18 below.

Table 2-17 — Network Interface Module (NIM) R400 Factory Configuration

Type	P-MNIM1-200		Alternate Configuration		Alternate Configuration	
Slot	Front	Rear	Front	Rear	Front	Rear
5	PNM	PNM I/O	PNM	PNM I/O		
4	EPNI	PNI I/O	EPNI	PNI I/O	EPNI	NIM Modem
3	EMEM					
2 *Note 7*	LLCN	LCN I/O	LLCN	LCN I/O	LLCN	LCN I/O
1	HPK2-2	*Note 6*	HPK2-3	*Note 6*	HPK2-3	*Note 6*

Table 2-18 — Network Interface Module (NIM) Upgrade to R400 Configuration

Type	High Performance Only		Alternate Configuration	
Slot	Front	Rear	Front	Rear
5	PNM	PNM I/O		
4	EPNI	PNI I/O	EPNI	NIM Modem
3	EMEM		EMEM	
2 *Note 7*	LCN	LCN I/O	LCN	LCN I/O
1 *Note 5*	HMPU	*Note 6*	HMPU	*Note 6*

Note 5 HMPU and HPK2-2 or HPK2-3 boards are interchangeable except in the Redundant AM.
Note 6 Optional clock source/typer boards CS/R or MCPU I/O (see Table 2-5) may be included with any module type. Clock sources are generally placed in either the HG or NIM module.
Note 7 LCN and LLCN (Low Power LCN) boards are interchangeable.

2.2.14 Network Interface Module Configuration (CE Compliant)

This module is only available in a Dual Node Module. Refer to *Dual Node Module Service*.