GATEWAY COMMUNICATIONS, INC.
G/ETHERTWIST AT, AT-WS ADAPTER *(NATIONAL CHIPSET)*

NIC Type	Ethernet
Transfer Rate	10Mbps
Data Bus	16-bit ISA
Topology	Star
Wiring Type	Shielded twisted pair
	Unshielded twisted pair
	AUI transceiver via DB-15 port
Boot ROM	Available
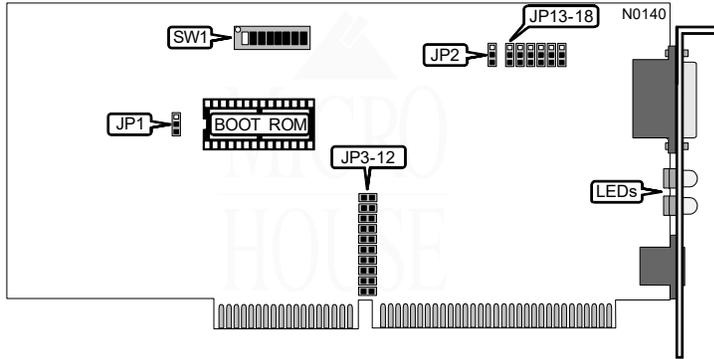
INTERRUPT REQUEST										
IRQ	JP3	JP4	JP5	JP6	JP7	JP8	JP9	JP10	JP11	JP12
í3	Open	Open	Open	Open	Open	Open	Open	Open	Closed	Open
15	Closed	Open	Open	Open	Open	Open	Open	Open	Open	Open
12	Open	Closed	Open	Open	Open	Open	Open	Open	Open	Open
11	Open	Open	Closed	Open	Open	Open	Open	Open	Open	Open
10	Open	Open	Open	Closed	Open	Open	Open	Open	Open	Open
7	Open	Open	Open	Open	Closed	Open	Open	Open	Open	Open
6	Open	Open	Open	Open	Open	Closed	Open	Open	Open	Open
5	Open	Open	Open	Open	Open	Open	Closed	Open	Open	Open
4	Open	Open	Open	Open	Open	Open	Open	Closed	Open	Open
2	Open	Open	Open	Open	Open	Open	Open	Open	Open	Closed

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I/O BASE ADDRESS				
Address	SW1/1	SW1/2	SW1/3	SW1/4
í2A0-2BF	On	Off	On	On
280-29F	On	On	On	On
2C0-2DF	On	On	Off	On
2E0-2FF	On	Off	Off	On
300-31F	On	On	On	Off
320-33F	On	Off	On	Off
340-35F	On	On	Off	Off
360-37F	Off	On	Off	Off

BASE MEMORY ADDRESS		
Base Address	SW1/5	SW1/6
C0000-C3FFF	On	On
C4000-C7FFF	Off	On
C8000-CBFFF	On	Off
íCC000- CFFFF	Off	Off

LINK INTEGRITY TEST	
Setting	JP31
íEnabled	Pins 1 & 2 Closed
Disabled	Pins 2 & 3 Closed
Note: Link Integrity is only used with 10Base-T wiring. When using an AUI transciever, the test should be disabled.	

COMPATIBILITY	
Mode	JP2
íCompatibility on	Pins 1 & 2 Closed
Compatibility off	Pins 2 & 3 Closed
Note: If one of the following problems presist after checking all other possibilities turn off Compatibility: Intermittent falures when booting the PC, system lock up, or continuous network error messages	

CABLE TYPE						
Type	JP8	JP9	JP10	JP11	JP12	JP13
AUI transceiver via DB-15 port	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Closed
íShielded/Unshielded twisted pair	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Open
Note: Pins designated should be in the closed position.						

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DIAGNOSTIC LED(S)	
Status	Condition
Jabber LED (1) on (Red)	Adapter is continually sending random data
Link test LED (2) on (Red)	Network connection good
Transmit LED (3) blinks (Red)	Data is being transmitted
Receive LED (4) on (Red)	Data is being received
Note: When using the AUI port, the LEDs are not functional.	

MISCELLANEOUS NOTES
The AT adapter can be used in a file server or a work station. The AT-WS adapter can be used in a work station only. Different drivers must be used for the National & the Fujitsu chipset cards, they are not interchangeable. Fujitsu drivers may be used for either 8 or 16 bit Fujitsu cards. While the National chipset cards require a different driver for an 8 or 16 bit card.