COMPEX, INC.
ARC-ARRAY (Rev. D1)

NIC Type   ARCnet
Transfer Rate   2.5Mbps
Data Bus   16-bit ISA
Topology   Star
                 Linear Bus
Wiring Type   RG-62A/U 93ohm coaxial
Boot ROM   Available
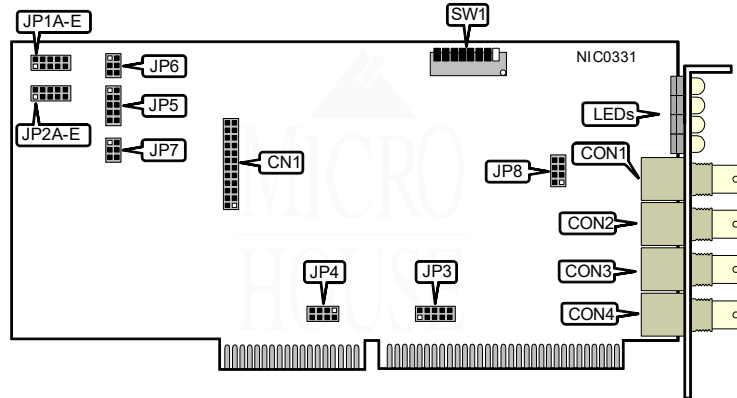
NODE ADDRESS								
Node	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
0	-	-	-	-	-	-	-	-
1	Off	On	On	On	On	On	On	On
2	On	Off	On	On	On	On	On	On
3	Off	Off	On	On	On	On	On	On
4	On	On	Off	On	On	On	On	On
251	Off	Off	On	Off	Off	Off	Off	Off
252	On	On	Off	Off	Off	Off	Off	Off
253	Off	On	Off	Off	Off	Off	Off	Off
254	On	Off	Off	Off	Off	Off	Off	Off
255	Off	Off	Off	Off	Off	Off	Off	Off

Note: Node address 0 is used for messaging between nodes and must not be used.
A total of 255 node address settings are available. The switches are a binary representation of the decimal node addresses. Switch 1 is the Least Significant Bit and switch 8 is the Most Significant Bit. The switches have the following decimal values: switch 1=1, 2=2, 3=4, 4=8, 5=16, 6=32 7=64, 8=128. Turn Off the switches and add the values of the Off switches to obtain the correct node address. (On=0, Off=1)

COMPEX, INC.
ARC-ARRAY (Rev. D1)

ARC-ARRAY TYPE SELECT				
	First Card		Second Card	
Type	JP1A-E	JP2A-E	JP1A-E	JP2A-E
Half Arc-Array	Closed	Open	N/A	N/A
Full Arc Array	Closed	Open	Open	Closed
Note: When only one Arc-Array adapter is present, Half Arc-Array setting is used giving a maximum transmission rate of 10Mbps. When two Arc-Array adapters are present, connected together via CN1 on both adapters, Full Arc-Array setting is used giving a maximum transmission rate of 20Mbps.				

INTERRUPT REQUEST									
IRQ	JP3/1	JP3/2	JP3/3	JP3/4	JP3/5	JP4/1	JP4/2	JP4/3	JP4/4
2/9	Closed	Open	Open	Open	Open	Open	Open	Open	Open
3	Open	Closed	Open	Open	Open	Open	Open	Open	Open
4	Open	Open	Closed	Open	Open	Open	Open	Open	Open
5	Open	Open	Open	Closed	Open	Open	Open	Open	Open
7	Open	Open	Open	Open	Closed	Open	Open	Open	Open
10	Open	Open	Open	Open	Open	Closed	Open	Open	Open
11	Open	Open	Open	Open	Open	Open	Closed	Open	Open
12	Open	Open	Open	Open	Open	Open	Open	Closed	Open
15	Open	Open	Open	Open	Open	Open	Open	Open	Closed

BASE MEMORY ADDRESS					
Address	JP5/1	JP5/2	JP5/3	JP5/4	JP5/5
C0000h	Closed	Closed	Closed	Closed	Closed
C4000h	Closed	Closed	Open	Closed	Closed
CC000h	Closed	Closed	Closed	Open	Closed
D0000h	Closed	Closed	Open	Open	Closed
D4000h	Closed	Closed	Closed	Closed	Open
D8000h	Closed	Closed	Open	Closed	Open
DC000h	Closed	Closed	Closed	Open	Open
E0000h	Closed	Closed	Open	Open	Open

COMPEX, INC.
A R C - A R R A Y (R e v . D 1)

I/O BASE ADDRESS			
Address	JP6/1	JP6/2	JP6/3
260h	Closed	Closed	Closed
290h	Open	Closed	Closed
í2E0h	Closed	Open	Closed
2F0h	Open	Open	Closed
300h	Closed	Closed	Open
350h	Open	Closed	Open
380h	Closed	Open	Open
3E0h	Open	Open	Open

WAIT STATE	
Setting	JP7/1
í1 Wait state	Open
0 Wait state	Closed

TIMEOUT CONFIGURATION		
Response Time	JP7/2	JP7/3
í74.7µs	Open	Open
283.4µs	Closed	Open
561.8µs	Open	Closed
1118.6µs	Closed	Closed
Note: Timeout is the time required for the network signal to make a complete trip around the network. Using a longer than necessary timeout will result in degradation of network performance.		

TOPOLOGY CONFIGURATION	
Topology	JP8/Jumpers 1 - 4
Star	Closed
Linear Bus	Open
Note: JP8/Jumpers 1, 2, 3, and 4 set Channels 1, 2, 3, and 4 respectively. Each channel may be individually configured for Star or Bus topology, e.g. closing only JP8/2 sets channel 2 for Star topology and channels 1,3, and 4 for Bus topology.	

COMPEX, INC.
ARC-ARRAY (Rev. D1)

Verision 1 (Shown Above)   Version 2
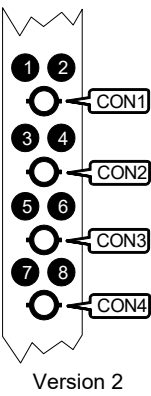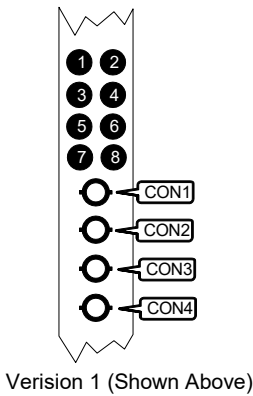
LEDS			
LED	Color	Status	Condition
1	Red	On	Data is being transmitted on CON1
1	Red	Off	Data is not being transmitted on CON1
2	Green	On	Data is being received on CON1
2	Green	Off	Data is not being received on CON1
3	Red	On	Data is being transmitted on CON2
3	Red	Off	Data is not being transmitted on CON2
4	Green	On	Data is being received on CON2
4	Green	Off	Data is not being received on CON2
5	Red	On	Data is being transmitted on CON3
5	Red	Off	Data is not being transmitted on CON3
6	Green	On	Data is being received on CON3
6	Green	Off	Data is not being received on CON3
7	Red	On	Data is being transmitted on CON4
7	Red	Off	Data is not being transmitted on CON4
8	Green	On	Data is being received on CON4
8	Green	Off	Data is not being received on CON4