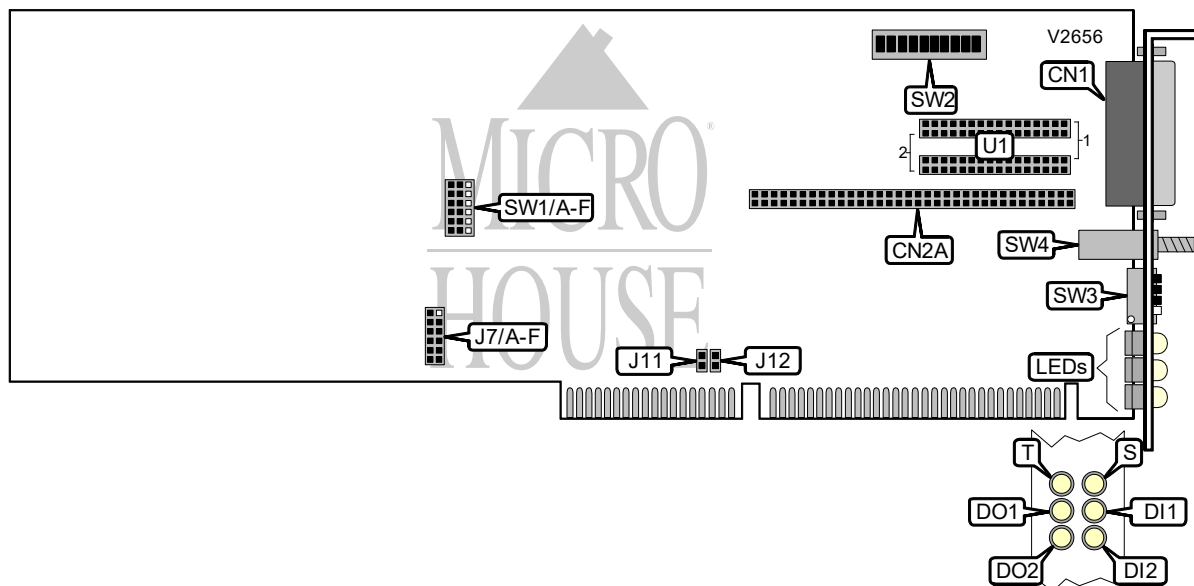


MOTOROLA, INC. VANGUARD 100PC

Card Type	Frame relay adapter
Processor	Motorola 68302
Processor Speed	15.36MHz
Chip Set	Unidentified
Maximum Onboard Memory	2MB DRAM/1MB Flash RAM
I/O Options	Serial port
Data Bus	16-bit ISA



CONNECTIONS			
Function	Label	Function	Label
V.11 V.24, V.35, V.36, or DSU port 2	CN1	Reset button	SW4
Daughterboard header for port 1 (on both front and back of card)	CN2A		

USER CONFIGURABLE SETTINGS			
Setting	Label	Position	
Port 2 pin 22 used for ring indicator	SW2/9	Off	
Port 2 pin 22 used to enter test mode in DCE mode, ring indicator in DTE mode	SW2/9	On	
Port 2 pin 25 used for test mode indicator	SW2/9	Off	
Port 2 pin 25 used for test mode indicator for DCE mode, busy out for DTE mode	SW2/9	On	
Use stored serial configuration	SW3/1	Off	
Force serial configuration to 9600bps, no parity, 8 data bits, 1 stop bit	SW3/1	On	
Factory diagnostic mode disabled	SW3/2	Off	
Factory diagnostic mode enabled	SW3/2	On	
Normal operation	SW3/3	Off	
Reset entire configuration to factory defaults	SW3/3	On	
Hardware configuration only	SW3/4	Off	
Allow software to override SW3/1 through SW3/3 and SW4	SW3/4	On	
Note: To use SW3/3, power up the adapter, turn SW3/3 on, press the reset button, and turn SW3/3 back off again.			

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VANGUARD 100PC

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COM PORT ADDRESS		
Setting	J11	J12
2F8h (COM2:)	Closed	Closed
3E8h (COM3:)	Open	Closed
2E8h (COM4:)	Closed	Open
1A8h	Open	Open
Note: This sets the address for the third serial port. It is accessed by a serial port on another card set at the same address.		

INTERRUPT						
Setting	J7/A	J7/B	J7/C	J7/D	J7/E	J7/F
IRQ3	Open	Open	Open	Open	Open	Closed
IRQ4	Open	Open	Open	Open	Closed	Open
IRQ5	Open	Open	Open	Closed	Open	Open
IRQ10	Open	Open	Closed	Open	Open	Open
IRQ11	Open	Closed	Open	Open	Open	Open
IRQ15	Closed	Open	Open	Open	Open	Open

PLUG-N-PLAY MODE						
Setting	SW1/A	SW1/B	SW1/C	SW1/D	SW1/E	SW1/F
Plug-N-Play	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
Standard	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3
Note: Pins designated are in the closed position.						

PORT 2 TYPE						
Setting	SW2/1	SW2/2	SW2/3	SW2/4	SW2/5	SW2/6
V.11 DTE	Off	Off	Off	Off	Off	On
V.11 DCE	Off	Off	Off	Off	Off	On
V.24 DTE	On	On	On	On	On	Off
V.24 DCE	On	On	On	On	On	Off
V.35 DTE	Off	Off	Off	Off	Off	On
V.35 DCE	Off	Off	Off	Off	Off	On
V.36 DTE	Off	Off	Off	Off	Off	On
V.36 DCE	Off	Off	Off	Off	Off	On
DSU	Off	Off	Off	Off	Off	On

PORT 2 TYPE (CON'T)			
Setting	SW2/7	SW2/8	U1
V.11 DTE	On	On	V.11 module in position 1
V.11 DCE	On	On	V.11 module in position 2
V.24 DTE	Off	Off	V.24 module in position 1
V.24 DCE	Off	Off	V.24 module in position 2
V.35 DTE	On	On	V.35 module in position 1
V.35 DCE	On	On	V.35 module in position 2
V.36 DTE	On	On	V.36 module in position 1
V.36 DCE	On	On	V.36 module in position 2
DSU	On	On	DSU module in position 1

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VANGUARD 100PC

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DIAGNOSTIC LED(S) (RESET AND POWER-UP)			
T	S	Other LEDs	Condition
On	On	On	Card is beginning self-test
Blinking	Off	Off	Card is performing self-test
On	On	On	Card is beginning to load software
Off	Slow blink	Off	Card is loading software into DRAM from flash RAM
Off	Off	Off	Card is initializing configuration
On	Off	Off	Self-test failed
Off	Fast blink	Off	Flash RAM contains invalid code
Note: On reset or power-up, the LEDs should go through, in order, the first five actions shown above.			

DIAGNOSTIC LED(S) (NORMAL OPERATION)			
LED	Color	Status	Condition
T	Unidentified	On	Test failed
T	Unidentified	Off	No test in progress or test passed
T	Unidentified	Blinking	Test in progress
S	Unidentified	On	Software is running
S	Unidentified	Off	Software not running
S	Unidentified	Blinking	Software is downloading or card is booting
DO1	Unidentified	On	Card is transmitting MARK signal on port 1
DO1	Unidentified	Off	Card is transmitting SPACE signal on port 1
DI1	Unidentified	On	Card is receiving MARK signal on port 1
DI1	Unidentified	Off	Card is receiving SPACE signal on port 1
DO2	Unidentified	On	Card is transmitting MARK signal on port 2
DO2	Unidentified	Off	Card is transmitting SPACE signal on port 2
DI2	Unidentified	On	Card is receiving MARK signal on port 2
DI2	Unidentified	Off	Card is receiving SPACE signal on port 2

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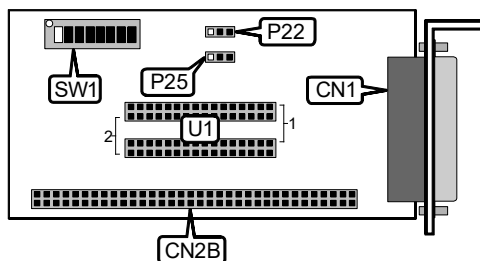
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VANGUARD 100PC (DIM SITE DAUGHTERCARD)

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Card Type
I/O Options

Serial
Serial port



CONNECTIONS			
Function	Label	Function	Label
V.11 V.24, V.35, V.36, or DSU port	CN1	Header to main board (on both front and back of card)	CN2B

USER CONFIGURABLE SETTINGS			
Setting	Label	Position	
Pin 22 used for ring indicator	P22	Pins 2 & 3 closed	
Pin 22 used to enter test mode in DCE mode, ring indicator in DTE mode	P22	Pins 1 & 2 closed	
Pin 25 used for test mode indicator	P25	Pins 1 & 2 closed	
Pin 25 used for test mode indicator for DCE mode, busy out for DTE mode	P25	Pins 2 & 3 closed	

SERIAL PORT TYPE						
Setting	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
V.11 DTE	Off	Off	Off	Off	Off	On
V.11 DCE	Off	Off	Off	Off	Off	On
V.24 DTE	On	On	On	On	On	Off
V.24 DCE	On	On	On	On	On	Off
V.35 DTE	Off	Off	Off	Off	Off	On
V.35 DCE	Off	Off	Off	Off	Off	On
V.36 DTE	Off	Off	Off	Off	Off	On
V.36 DCE	Off	Off	Off	Off	Off	On
DSU	Off	Off	Off	Off	Off	On

SERIAL PORT TYPE (CON'T)			
Setting	SW1/7	SW1/8	U1
V.11 DTE	On	On	V.11 module in position 1
V.11 DCE	On	On	V.11 module in position 2
V.24 DTE	Off	Off	V.24 module in position 1
V.24 DCE	Off	Off	V.24 module in position 2
V.35 DTE	On	On	V.35 module in position 1
V.35 DCE	On	On	V.35 module in position 2
V.36 DTE	On	On	V.36 module in position 1
V.36 DCE	On	On	V.36 module in position 2
DSU	On	On	DSU module in position 1

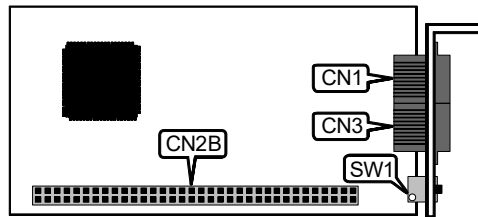
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VANGUARD 100PC (ISDN S/T DAUGHTERCARD)

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Card Type	ISDN TA
ISDN Transfer Rate	64Kbps x 2
ISDN Protocol	Unidentified
Switch Type	Unidentified



CONNECTIONS			
Function	Label	Function	Label
Line in/out	CN1	Line in/out	CN3
Header to main board (on both front and back of card)	CN2B		
Note: Two connectors are provided so the user can daisy-chain devices on the S/T bus.			

USER CONFIGURABLE SETTINGS		
Setting	Label	Position
í S/T bus not terminated	SW1	Off
S/T bus terminated	SW1	On

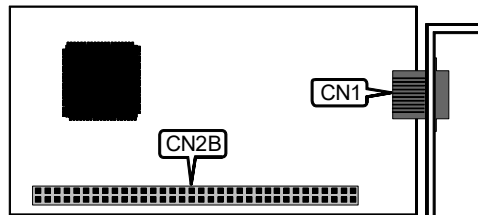
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VANGUARD 100PC (ISDN U DAUGHTERCARD)

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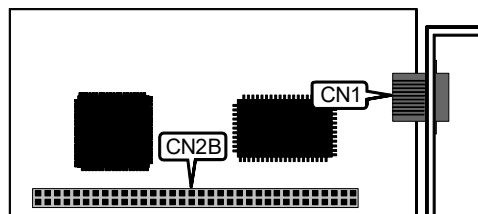
Card Type ISDN TA
ISDN Transfer Rate 64Kbps x 2
ISDN Protocol Unidentified
Switch Type Unidentified



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Header to main board (on both front and back of card)	CN2B

VANGUARD 100PC (DSU DAUGHTERCARD)

Card Type DDS DSU
DSU Transfer Rate 56Kbps
Modulation Protocol Unidentified



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Header to main board (on both front and back of card)	CN2B