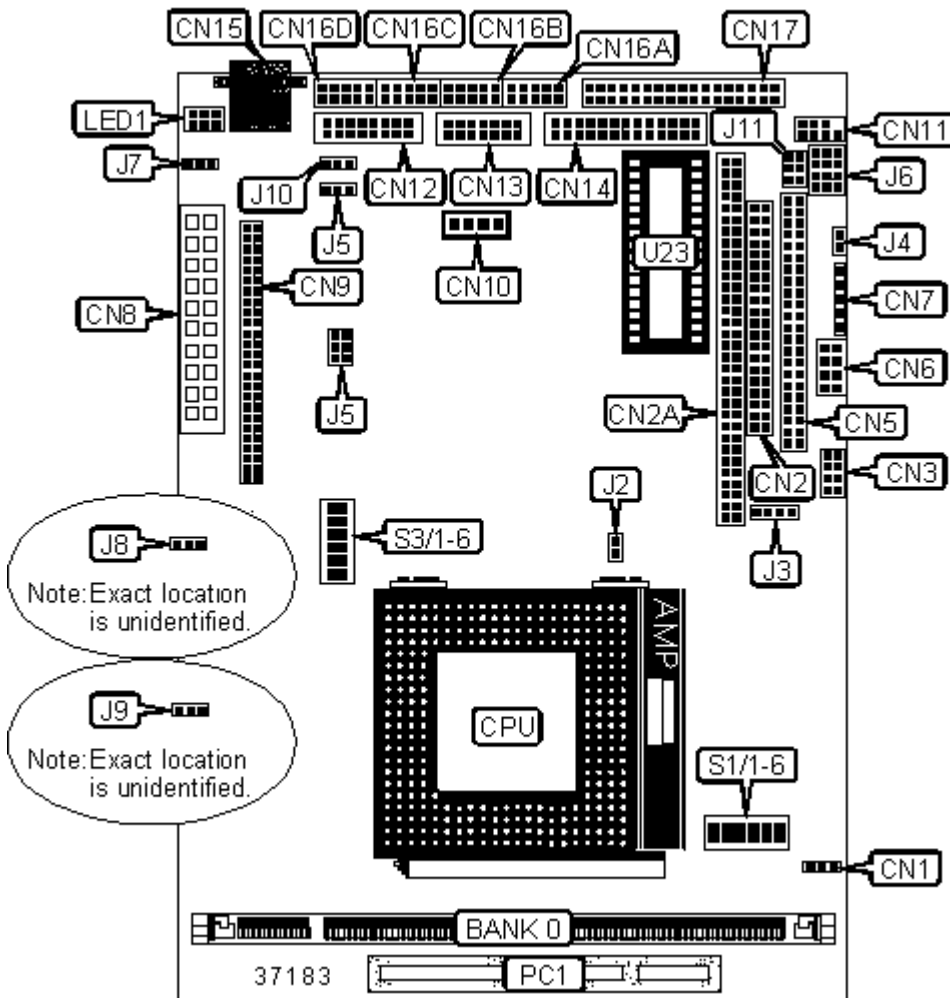


# EMAC, INC.

PCM-5896

<b>Device Type</b>	Single Board Computer
<b>Processor</b>	CX 6X86MX/CX MIII/AM K6/AM K6-2/IDT Winchip/Pentium/Pentium MMX
<b>Processor Speed</b>	166/200/233/266/300/333/350/366/400MHz
<b>Chip Set</b>	ALI
<b>Video Chip Set</b>	Chips and Technology
<b>Audio Chip Set</b>	Creative Labs
<b>Maximum Onboard Memory</b>	128MB (SDRAM supported)
<b>Maximum Video Memory</b>	2MB
<b>Cache</b>	Unidentified
<b>BIOS</b>	Award
<b>Dimensions</b>	203mm x 146mm
<b>I/O Options</b>	32-bit PCI slot, ATX power connector, Audio in - CD-ROM, Ethernet 100BaseT connector, Flat panel connector, Floppy drive interface, IDE interface, IR connector, Parallel interface, PC/104 connectors (2), PS/2 mouse/AT keyboard interface, Serial interfaces (4), Solid-state flash disk socket, Sound connector, USB interface, VGA connector



CONNECTIONS			
Purpose	Location	Purpose	Location
CPU fan power	CN1	Sound connector	CN13

16-bit PC/104 connector	CN2	Parallel interface	CN14
8-bit PC/104 connector	CN2A	100BaseT Ethernet connector	CN15
USB interface	CN3	Serial interface 1	CN16A
IDE interface	CN5	Serial interface 2	CN16B
IDE interface LED	CN6/Pins 1 & 2	Serial interface 3	CN16C
Speaker	CN6/Pins 3 - 5	Serial interface 4	CN16D
Reset switch	CN6/Pins 7 & 8	Floppy drive interface	CN17
IR connector	CN7	Power switch	J4
ATX power connector	CN8	Ethernet Rx LED connector	LED1/Pins 1 & 2
Flat panel connector	CN9	Ethernet Link LED connector	LED1/Pins 3 & 4
Audio in - CD-ROM	CN10	Ethernet Tx LED connector	LED1/Pins 5 & 6
PS/2 mouse/AT keyboard interface	CN11	32-bit PCI slot	PC1
VGA connector	CN12	Solid-state flash disk (DOC) socket	U23
Note: Pin 1 locations of CN6 & LED1 are unidentified.			

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	J2	Open
	CMOS memory clear	J2	Closed
»	Flat panel clock signal select SHF	J7	Pins 2 & 3 closed
	Flat panel clock signal select ASHF	J7	Pins 1 & 2 closed
»	Flat panel connector voltage select 3.3V	J8	Pins 2 & 3 closed
	Flat panel connector voltage select 5V	J8	Pins 1 & 2 closed
»	Factory configured - do not alter	J9	Pins 1 & 2 closed
»	Audio output amplified	J12	Pins 3 & 5, 4 & 6 closed
	Audio output not amplified	J12	Pins 1 & 3, 2 & 4 closed
»	Factory configured - do not alter	S1/1	Unidentified

Note: Pin 1 locations of J7, J8, J9 & J12 are unidentified. Switch 1 location on S1 is unidentified.

### DIMM CONFIGURATION

Size	Bank 0
16MB	(1) 2M x 64
32MB	(1) 4M x 64
64MB	(1) 8M x 64
128MB	(1) 16M x 64

Note: Board supports SDRAM memory.

### CPU BUS SPEED SELECTION

CPU	PCI	S3/1	S3/2	S3/3
60MHz	30MHz	On	On	On
66.8MHz	33.4MHz	Off	On	On
75MHz	30MHz	On	On	Off
83.3MHz	33.3MHz	Off	On	Off
90MHz	30MHz	On	Off	Off
» 100MHz	33.3MHz	Off	Off	Off

Note: Switch 1 location of S3 is unidentified.

### CPU MULTIPLIER SELECTION

Multiplier	S3/4	S3/5	S3/6
1.5x	Off	Off	Off
2.0x	Off	Off	On
2.5x	Off	On	On
3.0x	Off	On	Off
3.5x	Off	Off	Off
» 4.0x	On	Off	On

	4.5x	On	On	On
	5.0x	On	On	Off
	5.5x	On	Off	Off
Note: Switch 1 location of S3 is unidentified.				

CPU VOLTAGE SELECTION (DUAL)						
	Voltage	S1/2	S1/3	S1/4	S1/5	S1/6
	1.8V	On	On	Off	On	Off
	1.85V	On	On	Off	On	On
	1.9V	On	On	On	Off	Off
	1.95V	On	On	On	Off	On
	2.0V	On	On	On	On	Off
	2.05V	On	On	On	On	On
	2.1V	Off	Off	Off	Off	On
»	2.2V	Off	Off	Off	On	Off
	2.3V	Off	Off	Off	On	On
	2.4V	Off	Off	On	Off	Off
	2.5V	Off	Off	On	Off	On
	2.6V	Off	Off	On	On	Off
	2.7V	Off	Off	On	On	On
	2.8V	Off	On	Off	Off	Off
	2.9V	Off	On	Off	Off	On
	3.0V	Off	On	Off	On	Off
	3.1V	Off	On	Off	On	On
	3.2V	Off	On	On	Off	Off
	3.4V	Off	On	On	On	Off
Note: Switch 1 location of S1 is unidentified.						

**CPU VOLTAGE SELECTION (SINGLE)**

Voltage	S1/2	S1/3	S1/4	S1/5	S1/6
3.3V	Off	On	On	Off	On
3.5V	Off	On	On	On	On

Note: Switch 1 location of S1 is unidentified.

**SERIAL INTERFACE 2 SELECTION**

Setting	J6	J11
» RS-232	Pins 1 & 2, 4 & 5, 7 & 8, 10 & 11 closed	Pins 1 & 2 closed
RS-422	Pins 2 & 3, 5 & 6, 8 & 9, 11 & 12 closed	Pins 3 & 4 closed
RS-485	Pins 2 & 3, 5 & 6, 8 & 9, 11 & 12 closed	Pins 5 & 6 closed

Note: Pin 1 locations of J6 & J11 are unidentified. All pins should be open unless designated as closed.

**SERIAL INTERFACE 3 VOLTAGE SELECTION**

Setting	J10/Pins 1 & 2	J10/Pins 3 & 4	J10/Pins 5 & 6
» RI	Open	Open	Closed
+5V	Open	Closed	Open
+12V	Closed	Open	Open

Note: Pin 1 location of J10 is unidentified.

**SERIAL INTERFACE 4 VOLTAGE SELECTION**

Setting	J5/Pins 1 & 2	J5/Pins 3 & 4	J5/Pins 5 & 6
» RI	Open	Open	Closed
+5V	Open	Closed	Open
+12V	Closed	Open	Open

Note: Pin 1 location of J5 is unidentified.

**SOLID-STATE FLASH DISK (DOC) ADDRESS SELECTION**

	<b>Address</b>	<b>J3/Pins 1 &amp; 2</b>	<b>J3/Pins 3 &amp; 4</b>
	D400h	Open	Open
»	D800h	Closed	Open
	DC00h	Open	Closed
	Disable	Closed	Closed
Note: Pin 1 location of J3 is unidentified.			

#### MISCELLANEOUS TECHNICAL NOTES

Solid-state flash disk socket supports (DOC 2000 & 1000 series) devices from 2MB to 144MB.