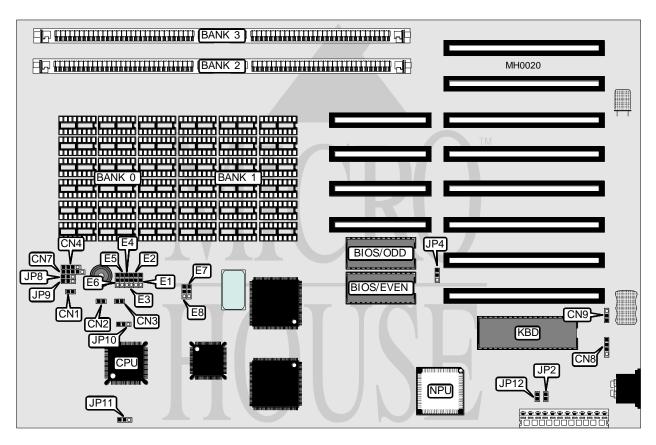
CHEERFUL INTERNATIONAL CORPORATION S680

Processor 80386SX **Processor Speed** 16MHz **Chip Set** Intel Max. Onboard DRAM 2MB Cache None **BIOS** AMI

330.2mm x 218.4mm **Dimensions**

I/O Options None **NPU Options** 80387SX



CONNECTIONS					
Purpose	Location	Purpose	Location		
Reset switch	CN1	Speaker	CN4		
Turbo switch	CN2	Power LED & keylock	CN7		
Turbo LED CN3		External battery	CN8		
Note: CN2 can be connected to a turbo switch, however the manufacturer recommends that the					
computer be turned off before changing the CPU speed.					

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USER CONFIGURABLE SETTINGS					
Function	Jumper	Position			
í CPU speed select fast	CN2	closed			
CPU speed select slow	CN2	open			
í Battery select internal	CN9	pins 2 & 3 closed			
Battery select external	CN9	pins 1 & 2 closed			
í Monitor type select monochrome	JP2	open			
Monitor type select color	JP2	closed			
í BIOS type select 2764	JP4	pins 1 & 2 closed			
BIOS type select 27128	JP4	pins 2 & 3 closed			
í Factory configured - do not alter	JP10	unknown			
í Factory configured - do not alter	JP11	unknown			
í Factory configured - do not alter	JP12	unknown			

DRAM CONFIGURATION							
Size	Bank 0	Bank 1	Bank 2	Bank 3	E1 - E8		
512KB	(18) 41256	NONE	NONE	NONE	pins 1 & 2 closed		
512KB	NONE	NONE	(2) 256K x 9	NONE	pins 2 & 3 closed		
1MB	(18) 41256	(18) 41256	NONE	NONE	pins 1 & 2 closed		
1MB	NONE	NONE	(2) 256K x 9	(2) 256K x 9	pins 2 & 3 closed		
1.5MB	(18) 41256	(18) 41256	(2) 256K x 9	NONE	pins 1 & 2 closed		
2MB	(18) 41256	(18) 41256	(2) 256K x 9	(2) 256K x 9	pins 1 & 2 closed		
2MB	(18) 411000	NONE	NONE	NONE	pins 1 & 2 closed		
2MB	NONE	NONE	(2) 1M x 9	NONE	pins 2 & 3 closed		
4MB	(18) 411000	(18) 411000	NONE	NONE	pins 1 & 2 closed		
4MB	NONE	NONE	(2) 1M x 9	(2) 1M x 9	pins 2 & 3 closed		
6MB	(18) 411000	(18) 411000	(2) 1M x 9	NONE	pins 1 & 2 closed		
8MB	(18) 411000	(18) 411000	(2) 1M x 9	(2) 1M x 9	pins 1 & 2 closed		

DRAM MODE CONFIGURATION						
Mode	DRAM type	JP8	JP9			
Page Mode (Four page)	100ns	pins 1 & 2 closed	pins 1 & 2 closed			
Page Mode (One page)	100ns	pins 2 & 3 closed	pins 1 & 2 closed			
Fast mode	100ns	pins 1 & 2 closed	pins 2 & 3 closed			
Slow mode	120ns	pins 2 & 3 closed	pins 2 & 3 closed			