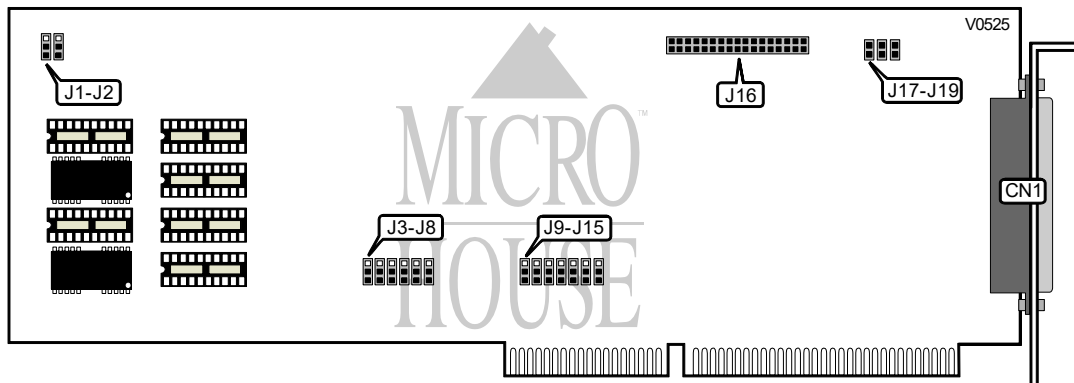


LONGSHINE MICROSYSTEM, INC.
LCS-8682

Card Type	Serial Controller
Chipset/Controller	Intel
I/O Options	Serial I/O ports(up to 35)
Maximum DRAM	128KB



CONNECTIONS	
Purpose	Location
DB-62 I/O interface	CN1
LCS-8682-1 expansion board connector	J16

EPROM SELECT		
Typ	J1	J2
i 2764	Pins 1 & 2 closed	Pins 1 & 2 closed
27128	Pins 1 & 2 closed	Pins 2 & 3 closed
27256	Pins 2 & 3 closed	Pins 2 & 3 closed

INTERRUPT SELECT						
IRQ	J3	J4	J5	J6	J7	J8
i Not Used	Open	Open	Open	Open	Open	Pins 1 & 2
IRQ3	Open	Open	Open	Open	Open	Pins 2 & 3
IRQ4	Open	Open	Open	Open	Pins 2 & 3	Open
IRQ5	Open	Pins 2 & 3	Open	Open	Open	Open
IRQ6	Open	Open	Open	Pins 2 & 3	Open	Open
IRQ7	Open	Open	Pins 2 & 3	Open	Open	Open
IRQ9	Pins 2 & 3	Open	Open	Open	Open	Open
IRQ10	Pins 1 & 2	Open	Open	Open	Open	Open
IRQ11	Open	Open	Pins 1 & 2	Open	Open	Open
IRQ12	Open	Open	Open	Pins 1 & 2	Open	Open
IRQ14	Open	Open	Open	Open	Pins 1 & 2	Open
IRQ15	Open	Pins 1 & 2	Open	Open	Open	Open

Note: All Pins designated should be in the closed position.

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MISCELLANEOUS TECHNICAL NOTES

Note: While there are eight total RAM sockets on-board the LCS-8683, only two sockets are actually valid. Insert the RAM chips into the two sockets shown as chips on the diagram above.

BASE MEMORY ADDRESS SELECT							
Address	J9	J10	J11	J12	J13	J14	J15
iDE0000 - DFFFFFFh	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
iEE0000 - EFFFFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
100000 - 11FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3
120000 - 13FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
140000 - 15FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
160000 - 17FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2
180000 - 19FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3
1A0000 - 1BFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2
1C0000 - 1DFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3
1E0000 - 1FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
200000 - 21FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3
220000 - 23FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2
240000 - 25FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
260000 - 27FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2
280000 - 29FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3
2A0000 - 2BFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2
2C0000 - 2DFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3
2E0000 - 2FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
300000 - 31FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3
320000 - 33FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2
340000 - 35FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
360000 - 37FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2
380000 - 39FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3
3A0000 - 3BFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2
3C0000 - 3DFFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3
3E0000 - 3FFFFFFh	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2
400000 - 41FFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3
420000 - 43FFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2
440000 - 45FFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
460000 - 47FFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2
480000 - 49FFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3
4A0000 - 4BFFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2
4C0000 - 4DFFFFFFh	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3

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BASE MEMORY ADDRESS SELECT(CONTINUED)							
Address	J9	J10	J11	J12	J13	J14	J15
F40000 - F5FFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 2 & 3
F60000 - F7FFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2	Pins 1 & 2
F80000 - F9FFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 2 & 3
FA0000 - FBFFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3	Pins 1 & 2
FC0000 - FCFFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 2 & 3
FE0000 - FFFFFFFh	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2	Pins 1 & 2

Note: All Pins designated should be in the closed position.

MISCELLANEOUS TECHNICAL NOTES
Note: If only one LCS-8682 is installed, the base memory address can be set to either of the two possible defaults. If more than one unit is installed, both defaults should be used simultaneously.

I/O ADDRESS SELECT			
Address	17	18	19
157h	Closed	Closed	Closed
15Fh	Closed	Closed	Open
257h	Closed	Open	Closed
25Fh	Closed	Open	Open
357h	Open	Closed	Closed
35Fh	Open	Closed	Open
236h	Open	Open	Closed