

## SECTION 4 LBC8523 QUICK REFERENCE

This section is intended to be a quick reference for those users that are in a hurry or who are already familiar with the LBC8523. The information contained in this section is a pictorial rehash of the tables and figures in the previous two sections. If further information is required, please refer to the relevant areas of Sections 2 and 3.

Peripheral Connector Pinouts:

J1- USB PORT	
PIN	SIGNAL
1	+5V
2	USBP0-
3	USBP0+
4	SIGNAL GND

J2 - RESET PORT	
Pin	Signal
1	Reset/
2	GND

J3- SPEAKER PORT	
PIN	SIGNAL
1	SPEAKER DATA
2	N/C
3	GND
4	FUSED +5V

J4 - KEYLOCK PORT	
PIN	SIGNAL
1	POWER LED
2	N/C
3	GND
4	KEYLOCK/
5	GND

J5- IDE ACTIVITY	
PIN	SIGNAL
1	LED Cathode
2	LED Anode

J6 - SYSTEM ENVIRONMENT MONITOR I/O PORT			
SIGNAL	PIN	PIN	SIGNAL
GENERAL PURPOSE INPUT 3	1	2	GENERAL PURPOSE INPUT 4
GENERAL PURPOSE INPUT 2	3	4	GENERAL PURPOSE INPUT 5
GENERAL PURPOSE INPUT 1	5	6	GENERAL PURPOSE INPUT 6
GENERAL PURPOSE OUTPUT 3	7	8	GENERAL PURPOSE INPUT 7 / CPU FAN 2 STROBE
GENERAL PURPOSE OUTPUT 2	9	10	GENERAL PURPOSE INPUT 8 / CPU FAN 1 STROBE
GENERAL PURPOSE OUTPUT 1	11	12	RESERVED
GENERAL PURPOSE OUTPUT 0	13	14	RESERVED
RESERVED	15	16	RESERVED
RESERVED	17	18	RESERVED

<b>J7 - IDE CONNECTOR PINOUT</b>			
<b>FUNCTION</b>	<b>PIN</b>	<b>PIN</b>	<b>FUNCTION</b>
IDE RESET/	1	2	GND
DATA(7)	3	4	DATA(8)
DATA(6)	5	6	DATA(9)
DATA(5)	7	8	DATA(10)
DATA(4)	9	10	DATA(11)
DATA(3)	11	12	DATA(12)
DATA(2)	13	14	DATA(13)
DATA(1)	15	16	DATA(14)
DATA(0)	17	18	DATA(15)
GND	19	20	N/C
IDE DREQ	21	22	GND
I/O WRITE/	23	24	GND
I/O READ/	25	26	GND
I/O READY	27	28	GND
IDE DACK/	29	30	GND
IRQ(14)	31	32	IOCS16/
A1	33	34	N/C
A0	35	36	A2
IDE CHIP SELECT 0/	37	38	IDE CHIP SELECT 1/
IDE ACTIVE/	39	40	GND

<b>J8- PARALLEL PORT CONNECTOR</b>			
<b>FUNCTION</b>	<b>PIN</b>	<b>PIN</b>	<b>FUNCTION</b>
STROBE/	1	2	AUTOFEED/
DATA(0)	3	4	ERROR/
DATA(1)	5	6	INIT/
DATA(2)	7	8	SELECT IN/
DATA(3)	9	10	GND
DATA(4)	11	12	GND
DATA(5)	13	14	GND
DATA(6)	15	16	GND
DATA(7)	17	18	GND
ACK/	19	20	GND
BUSY	21	22	GND
PAPER EMPTY	23	24	GND
SELECT	25	26	GND

<b>J9 &amp; J11 - SERIAL PORT CONNECTOR PINOUT</b>		
<b>PIN</b>	<b>FUNCTION</b>	<b>I/O</b>
1	GND	
2	RING DETECT	IN
3	DATA TERMINAL READY	OUT
4	CLEAR TO SEND	IN
5	TX DATA	OUT
6	REQUEST TO SEND	OUT
7	RX DATA	IN
8	DATA SET READY	IN
9	DATA CARRIER DETECT	IN

<b>J10 - FLOPPY CONNECTOR PINOUT</b>			
<b>FUNCTION</b>	<b>PIN</b>	<b>PIN</b>	<b>FUNCTION</b>
GND	1	2	RPM
GND	3	4	N/C
GND	5	6	DRATE0
GND	7	8	INDEX
GND	9	10	MOTOR1
GND	11	12	DRIVE2
GND	13	14	DRIVE1
GND	15	16	MOTOR2
GND	17	18	DIRECTION
GND	19	20	STEP
GND	21	22	WRITE DATA
GND	23	24	WRITE ENABLE
GND	25	26	TRACK0
GND	27	28	WRITE PROTECT
GND	29	30	READ DATA
GND	31	32	HEAD SELECT
GND	33	34	DISK CHANGE

<b>J12- Internal Keyboard/ Mouse Connector</b>			
<b>SIGNAL</b>	<b>PIN</b>	<b>PIN</b>	<b>SIGNAL</b>
+5	1	2	KBDAT
KBCLK	3	4	NC
GND	5	6	GND
NC	7	8	MSCLK
MSDAT	9	10	+5

<b>J13- SYSTEM MONITOR SERIAL PORT</b>	
<b>SIGNAL</b>	<b>PIN</b>
GND	1
RING DETECT	2
DATA TERMINAL READY	3
CLEAR TO SEND	4
TRANSMIT DATA	5
REQUEST TO SEND	6
RECEIVE DATA	7

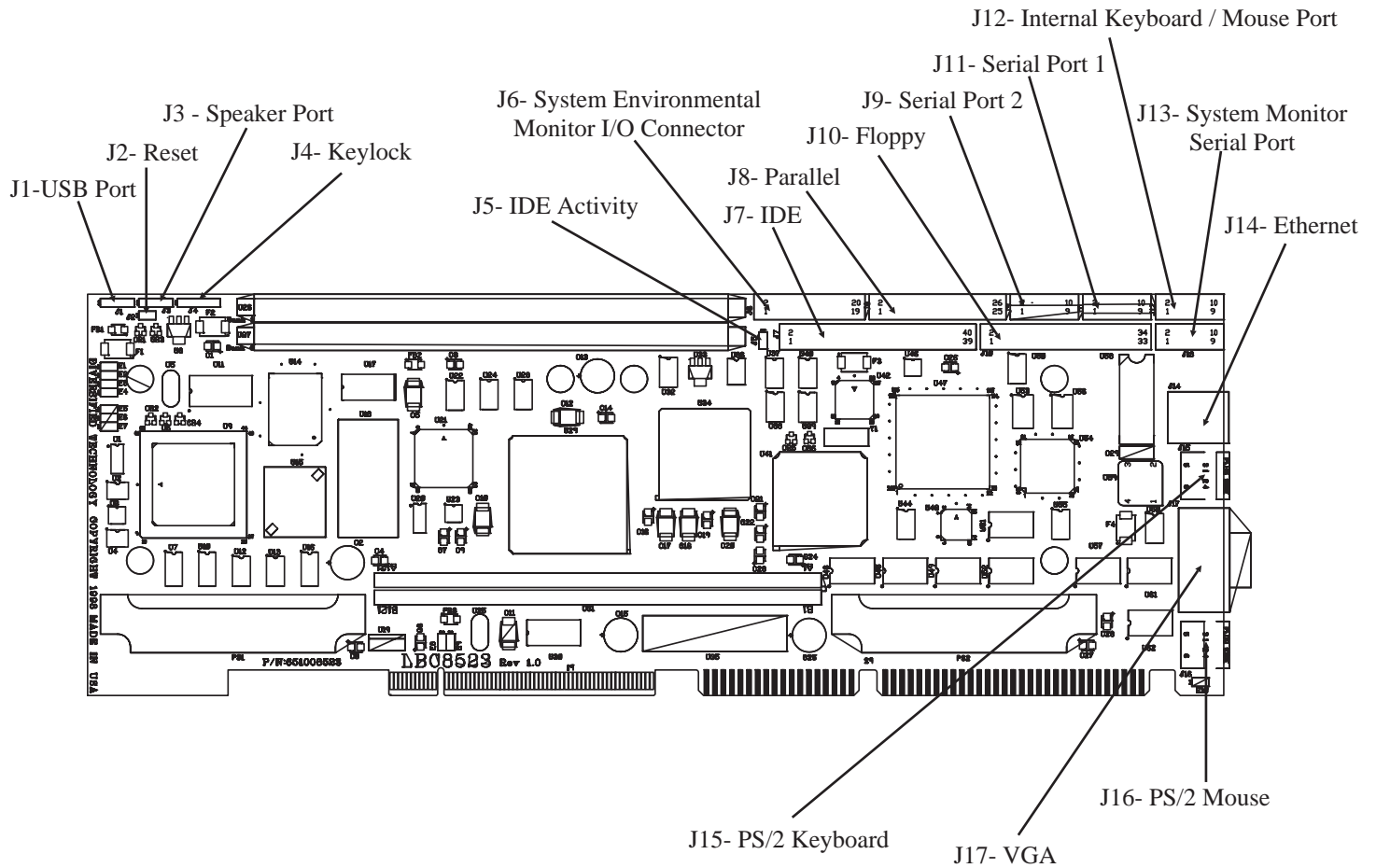
<b>J14 -ETHERNET</b>	
<b>PIN</b>	<b>SIGNAL</b>
1	TDH
2	TDL
3	RDH
4	N/C
5	N/C
6	RDL
7	N/C
8	N/C

<b>J15 - PS/2 KEYBOARD PORT</b>	
<b>PIN</b>	<b>SIGNAL</b>
1	DATA
2	N/C
3	GND
4	FUSED +5 VOLTS
5	CLOCK
6	GND

<b>J16 - PS/2 MOUSE PORT</b>	
<b>PIN</b>	<b>SIGNAL</b>
1	DATA
2	N/C
3	GND
4	+5 VOLTS
5	CLOCK
6	GND

<b>J17 -STANDARD VGA CONNECTOR</b>	
<b>PIN</b>	<b>FUNCTION</b>
1	ANALOG RED OUTPUT
2	ANALOG GREEN OUTPUT
3	ANALOG BLUE OUTPUT
4	N/C
5	GND
6	GND
7	GND
8	GND
9	N/C
10	GND
11	N/C
12	N/C
13	HORIZONTAL SYNC
14	VERTICAL SYNC
15	DOT CLOCK

# LBC8523 Connector Locations



<b>CPU Speed</b>	<b>Bus</b>	<b>E1</b>	<b>E2</b>	<b>E3</b>	<b>E4</b>
233MHz	66MHz	Off	Off	On	On
266MHz	66MHz	On	On	Off	On
300MHz	66MHz	Off	On	Off	On
333MHz	66MHz	On	Off	Off	On
350MHz	100MHz	Off	Off	On	On
400MHz	100MHz	On	On	Off	On
450MHz	100MHz	Off	On	Off	On
500MHz	100MHz	On	Off	Off	On

<b>E5</b>	<b>Video Enable</b>
*ON	Enabled
OFF	Disabled





<b>E6</b>	<b>Manufacturing Test</b>
ON	In-House Testing
*OFF	Normal Operation


<b>E7-Mouse (IRQ 12)</b>	
*ON	Enable
OFF	Disable

<b>E8 &amp; E9- Fan Strobe Monitors</b>	
*ON	Enable
OFF	Disable

<b>E10- Bracket Ground</b>	
*ON	Bracket Ground shorted to Board Ground
OFF	Bracket Ground Isolated

# LBC8523 Default Jumper Settings

-  E1
-  E2
-  E3
-  E4

-  E5
-  E6
-  E7

