DIVERSIFIED TECHNOLOGY

LBC8525

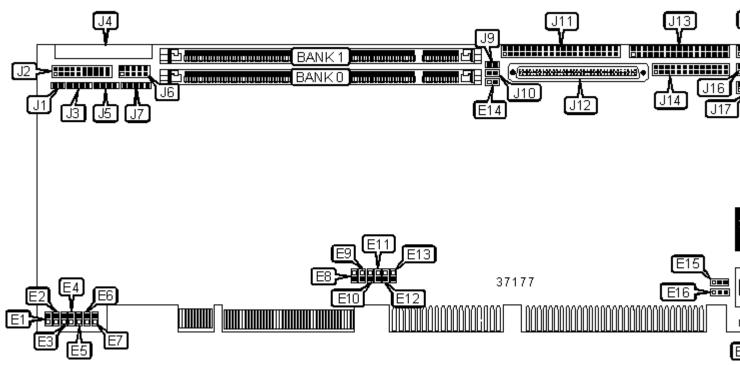|	
Device Type	Single Board Computer
Processor	Pentium II (2)
Processor Speed	233/266/300/333/350/400/450MHz
Chip Set	Intel 440GX
Video Chip Set	Chips and Technology
Maximum Onboard Memory	1GB (SDRAM supported)
Maximum Video Memory	2MB
Cache	256/512KB (located on the Pentium II CPU)
BIOS	Phoenix
Dimensions	338mm x 107mm
I/O Options	Ethernet 10BaseT connector, Flat panel connector, Floppy drive interface, IDE interface, Parallel interface, PS/2 keyboard/mouse port, Serial interfaces (2), System monitor interface, System monitor serial interface, USB interface, VGA port, Wide Ultra SCSI interface
Data Bus	16-bit ISA/32-bit PCI

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Reset switch	J1	Wide Ultra SCSI interface	J12
System monitor interface	J2	Floppy drive interface	J13
Speaker	J3	Parallel interface	J14
Flat panel connector	J4	Serial interface 2	J15
USB interface	J5	Serial interface 1	J16
System monitor serial interface	J6	Internal keyboard/mouse interface	J17

Power LED & keylock	J7	RJ-45 UTP connector 2	J18
IDE interface LED	J9	RJ-45 UTP connector 1	J19
SCSI interface LED	J10	PS/2 keyboard/mouse port	J20
IDE interface	J11	VGA port	J21

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
» Onboard video enabled	E5	Closed
Onboard video disabled	E5	Open
» Manufacturing test mode disabled	E6	Open
Manufacturing test mode enabled	E6	Closed
» Mouse (IRQ 12) enabled	E7	Closed
Mouse (IRQ12) disabled	E7	Open
» Ultra-SCSI transfer enabled	E14	Open
Ultra-SCSI transfer disabled	E14	Closed
» Keyboard data selected	E15	Pins 1 & 2 closed
Mouse data selected	E15	Pins 2 & 3 closed
» Keyboard clock selected	E16	Pins 1 & 2 closed
Mouse clock selected	E16	Pins 2 & 3 closed
» Bracket ground enabled	E17	Closed
Bracket ground disabled	E17	Open

DIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(1) 1M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64

40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
264MB	(1) 32M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64
520MB	(1) 64M x 64	(1) 1M x 64
528MB	(1) 64M x 64	(1) 2M x 64
544MB	(1) 64M x 64	(1) 4M x 64
576MB	(1) 64M x 64	(1) 8M x 64
640MB	(1) 64M x 64	(1) 16M x 64
768MB	(1) 64M x 64	(1) 32M x 64
1024MB	(1) 64M x 64	(1) 64M x 64
Note: Board supports SDRAM memory.		

CACHE CONFIGURATION

Note: 256/512KB cache is located on the Pentium II CPUs.

CPU SPEED SELECTION

CPU Speed	Bus Speed	E1	E2	E3	E4
233MHz	66MHz	Open	Open	Closed	Closed
266MHz	66MHz	Closed	Closed	Open	Closed
300MHz	66MHz	Open	Closed	Open	Closed
333MHz	66MHz	Closed	Open	Open	Closed
350MHz	100MHz	Open	Open	Closed	Closed
400MHz	100MHz	Closed	Closed	Open	Closed
450MHz	100MHz	Open	Closed	Open	Closed

FAN STROBE MONITORS SELECTION

	Fan Strobe Monitors	E8	E9
»	Enabled	Closed	Closed
	Disabled	Open	Open

FLAT PANEL RESOLUTION SELECTION

Setting	E10	E11	E12	E13
640 x 480 TFT	Open	Closed	Open	Closed
800 x 600 TFT	Open	Open	Open	Closed
1024 x 768 TFT	Closed	Open	Open	Closed
1280 x 1024 TFT	Open	Closed	Closed	Closed
640 x 480 DSTN	Closed	Open	Closed	Closed
800 x 600 DSTN	Open	Open	Closed	Closed
1024 x 768 DSTN	Closed	Closed	Closed	Closed

MISCELLANEOUS TECHNICAL NOTES

Up to 4 32-bit PCI devices are supported. 16-bit ISA support is provided as well.