DIVERSIFIED TECHNOLOGY

LBC8515

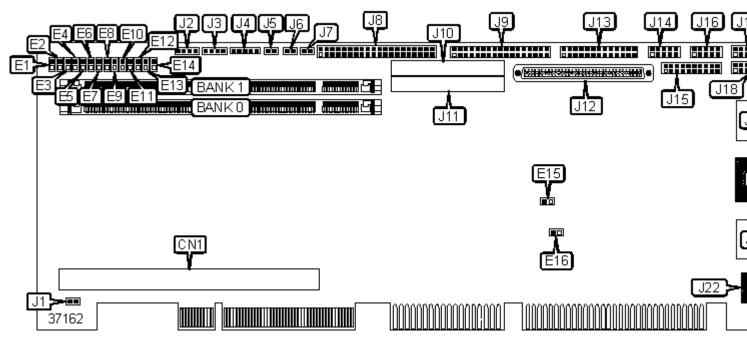|	
Device Type	Single board computer
Processor	Pentium II
Processor Speed	233/266/300/333/350/400MHz
Chip Set	Intel 440BX
Video Chip Set	Unidentified
Maximum Onboard Memory	512MB (EDO & SDRAM)
Maximum Video Memory	2MB
Cache	256/512KB (located on the CPU)
BIOS	Phoenix
Dimensions	338mm x 122mm
I/O Options	Ethernet connector, flat panel connectors (2), floppy drive interface, IDE interface, keyboard interface, parallel interface, PS/2 keyboard port, PS/2 mouse port, serial interfaces (2), system monitor interface, system monitor serial interface, Ultra-Wide SCSI interface, USB interface, VGA port
Data Bus	16-bit ISA/32-bit PCI

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Processor mounting device connector	CN1	Ultra-Wide SCSI interface	J12
CPU fan power	J1	Parallel interface	J13
USB interface	J2	Serial interface	J14
Speaker	J3	System monitor interface	J15
Power LED & keylock	J4	Serial interface	J16
SCSI interface LED	J5	Internal keyboard interface	J17
IDE interface LED	J6	System monitor serial interface	J18

Reset switch	J7	PS/2 keyboard port	J19
IDE interface	J8	VGA port	J20
Floppy drive interface	J9	PS/2 mouse port	J21
Flat panel connector A	J10	RJ-45 UTP connector	J22
Flat panel connector B	J11		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
» AGP enabled	E5	Open
AGP disabled	E5	Closed
» Display enabled	E10	Closed
Display disabled	E10	Open
» Factory configured - do not alter	E11	Open
» CPU fan strobe frees GPI input #5	E12	Open
CPU fan strobe monitored by system monitor	E12	Closed
» Termination enabled	E13	Open
Termination disabled	E13	Closed
» Bracket ground enabled	E14	Closed
Bracket ground disabled	E14	Open
» Ultra-SCSI transfer enabled	E15	Open
Ultra-SCSI transfer disabled	E15	Closed
» Mouse (IRQ 12) enabled	E16	Closed
Mouse (IRQ12) disabled	E16	Open

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

16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
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
64MB	(1) 8M x 64	None
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
128MB	(1) 16M x 64	None
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
256MB	(1) 32M x 64	None
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

Note: Board supports EDO & SDRAM memory.

CACHE CONFIGURATION

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

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

FLAT PANEL RESOLUTION SELECTION

Setting	E6	E7	E8	E9
640 x 480 TFT	Open	Closed	Closed	Closed
800 x 600 TFT	Open	Open	Closed	Closed
1024 x 768 TFT	Open	Closed	Open	Closed
1280 x 1024 TFT	Open	Open	Open	Closed
640 x 480 DSTN	Open	Closed	Closed	Open
800 x 600 DSTN	Open	Open	Closed	Open
1024 x 768 DSTN	Open	Closed	Open	Open
1200 x 1024 DSTN	Open	Open	Open	Open

MISCELLANEOUS TECHNICAL NOTES

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