DIVERSIFIED TECHNOLOGY

LBC8530

Device Type	Single Board Computer
Processor	Pentium II (Mobile)
Processor Speed	233/266/300/333/366/400MHz
Chip Set	Intel 440BX
Video Chip Set	S3, INC.
Maximum Onboard Memory	512MB (EDO & SDRAM supported)
Maximum Video Memory	2MB
Cache	512KB (located on the Pentium II CPU)
BIOS	Phoenix
Dimensions	338mm x 107mm
I/O Options	Ethernet 10BaseT connectors (2), Flat panel connectors (2), Flash disk socket, Floppy drive interface, IDE interfaces (2), Parallel interface, PS/2 keyboard/mouse port, SCSI interface, Serial interfaces (2), System monitor interface, USB interface, VGA port, Wide Ultra SCSI interface
Data Bus	16-bit ISA/32-bit PCI
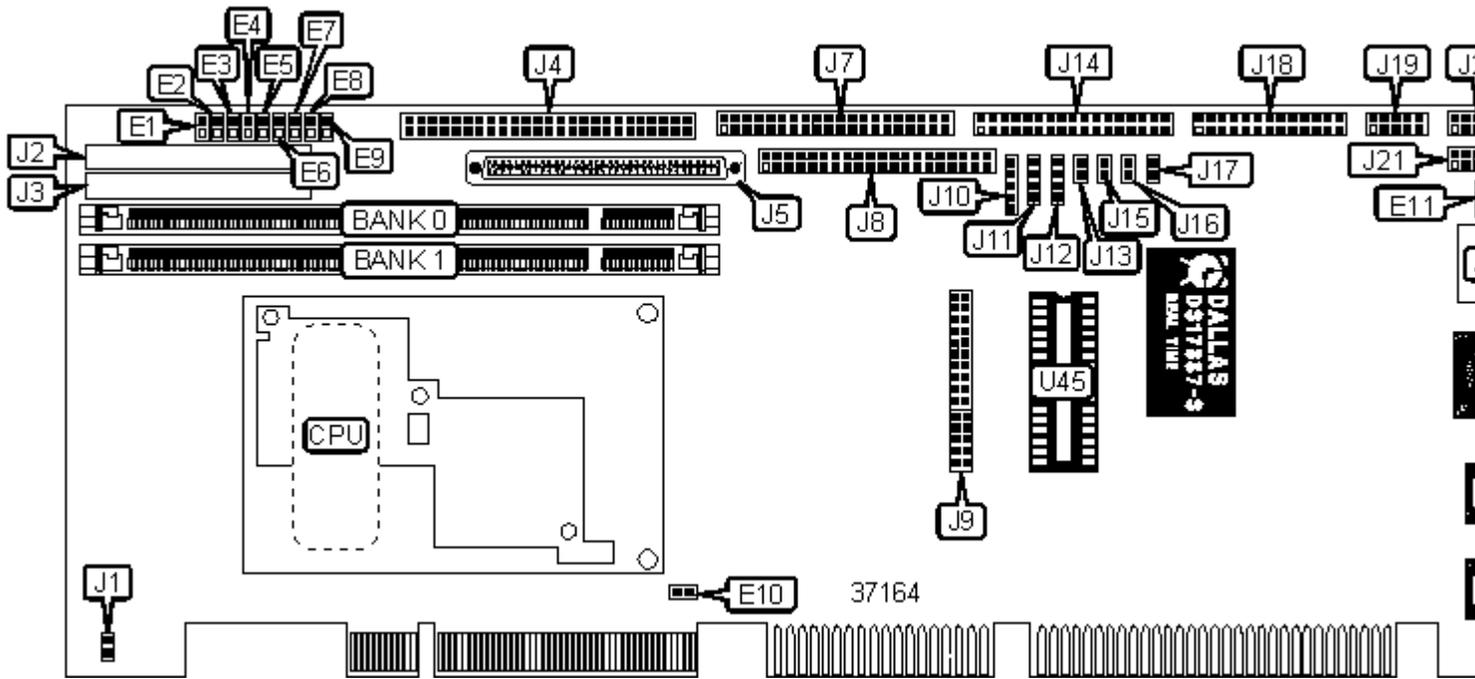
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
CPU fan power	J1	SCSI interface LED	J15
Flat panel connector A	J2	IDE interface LED	J16
Flat panel connector B	J3	IDE interface LED	J17
SCSI interface	J4	Parallel interface	J18
Wide Ultra SCSI interface	J5	Serial interface	J19
IDE interface 1	J7	Serial interface	J20

IDE interface 2	J8	Internal keyboard/mouse interface	J21
System monitor interface	J9	RJ-45 UTP connector A	J22
Power LED & keylock	J10	RJ-45 UTP connector B	J23
USB interface	J11	PS/2 keyboard/mouse mouse port	J24
Speaker	J12	VGA port	J25
Reset switch	J13	Flash disk socket	U45
Floppy drive interface	J14		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Mouse (IRQ 12) enabled	E4	Closed
	Mouse (IRQ12) disabled	E4	Open
»	Termination enabled	E5	Open
	Termination disabled	E5	Closed
»	CMOS memory normal operation	E6	Closed
	CMOS RAM if manufacturing test mode (E7) is enabled	E6	Open
»	Manufacturing mode disabled	E7	Open
	Manufacturing test mode enabled	E7	Closed
»	Bracket ground enabled	E8	Closed
	Bracket ground disabled	E8	Open
»	AGP enabled	E9	Open
	AGP disabled	E9	Closed
»	Ultra-SCSI transfer enabled	E10	Open
	Ultra-SCSI transfer disabled	E10	Closed

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

FLAT PANEL RESOLUTION SELECTION			
Setting	E1	E2	E3
640 x 480 TFT	Closed	Closed	Closed
800 x 600 TFT	Open	Closed	Closed
1024 x 768 TFT	Closed	Open	Closed
1280 x 1024 TFT	Open	Open	Closed
640 x 480 DSTN	Closed	Closed	Open
» 800 x 600 DSTN	Open	Closed	Open
1024 x 768 DSTN	Closed	Open	Open
1200 x 1024 DSTN	Open	Open	Open

PS/2 KEYBOARD/MOUSE PORT SELECTION		
Setting	E11	E12
» PS/2 port (J24) mouse port selected	Pins 2 & 3 closed	Pins 2 & 3 closed
PS/2 port (J24) keyboard port selected	Pins 1 & 2 closed	Pins 1 & 2 closed

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