LCS-6210D (REV.E) Hard Disk/Floppy Controller Settings and Configuration
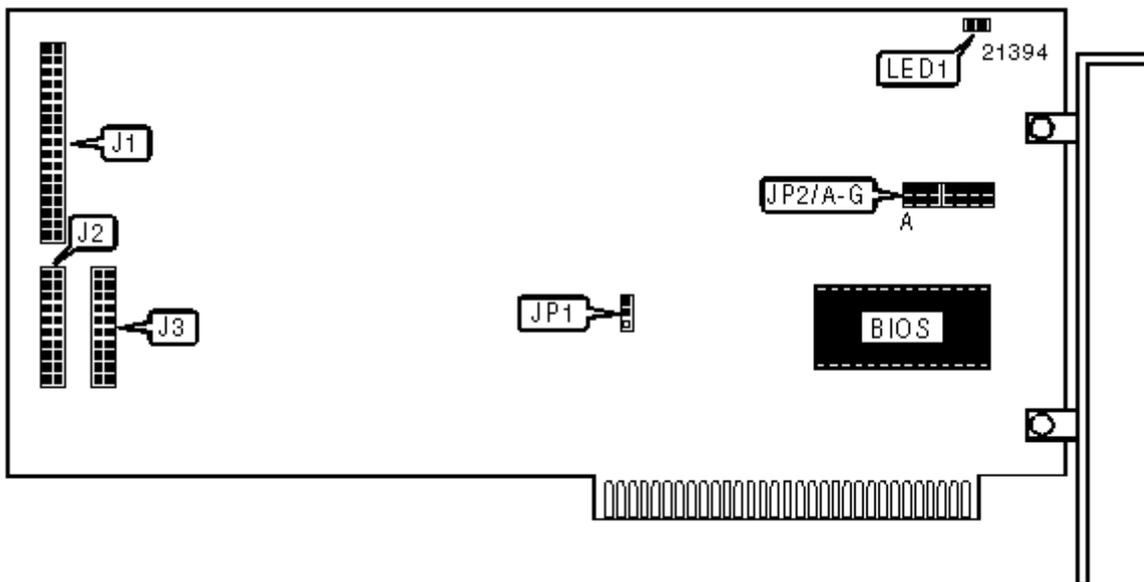
LONGSHINE MICROSYSTEM, INC.
LCS-6210D (REV.E)

Card Size	Full-height, half-length card
Hard Drives supported	Two ST-506/412(MFM) drives
Floppy drives supported	None
Data Bus	8-bit ISA

CONNECTIONS

Function	Location	Function	Location
34-pin control cable connector - hard drive	J1	20-pin data cable connector - drive 1	J3
20-pin data cable connector - drive 0	J2	4-pin connector - drive active LED	LED1

USER CONFIGURABLE SETTINGS

Function	Label	Position
Base address C8000h select	JP1	Pins 2 & 3 closed
Base address E8000h select	JP1	Pins 1 & 2 closed

»

Note: To select the appropriate address, JP1 connections must be soldered on some boards.

DRIVE 0 TYPE AND MODE SELECTION

»

Size	Heads	Cylinders	Step Rate	JP2/A	JP2/B	JP2/C	JP2/D
20MB	4	612	17.6us	Open	Open	Open	Open
20MB	4	612	200.00us	Closed	Open	Open	Open
10MB	2	612	17.6us	Open	Closed	Open	Open
10MB	2	612	200.00us	Closed	Closed	Open	Open
10MB	4	306	17.6us	Open	Open	Closed	Open
10MB	4	306	200.00us	Closed	Open	Closed	Open

Size	Heads	Cylinders	Step Rate				
20MB	8	306	17.6us	Open	Closed	Closed	Open
21MB	4	640	17.6us	Closed	Closed	Closed	Open
22MB	6	440	200.00us	Open	Open	Open	Closed
30MB	5	695	17.6us	Closed	Open	Open	Closed
32MB	6	640	17.6us	Open	Closed	Open	Closed
32MB	5	733	17.6us	Closed	Closed	Open	Closed
40MB	8	612	17.6us	Open	Open	Closed	Closed
42MB	5	977	17.6us	Closed	Open	Closed	Closed
45MB	5	1023	17.6us	Open	Closed	Closed	Closed
40MB	6	820	17.6us	Closed	Closed	Closed	Closed

DRIVE 1 TYPE AND MODE SELECTION

Parameters

»

Size	Heads	Cylinders	Step Rate	JP2/E	JP2/F	JP2/G
Drive 1 disabled	Open	Open	Open			
Drive 1 parameters same as drive 0	Closed	Open	Open			
Key-in mode	Open	Closed	Open			
10MB	2	612	17.6us	Closed	Closed	Open

20MB	4	612	17.6us	Open	Open	Closed
20MB	4	612	200.00us	Closed	Open	Closed
Reserved	Open	Closed	Closed			
Split mode (Drive 0 split into 2 logical drives)	Closed	Closed	Closed			

MISCELLANEOUS TECHNICAL NOTES

Sixteen different drive types can be selected by setting JP1. If drive type is indefinite, select Key-in Mode setting. This allows drive options to be explored during low-level Formatting Procedure.

Topics