SEAGATE TECHNOLOGY, INC.
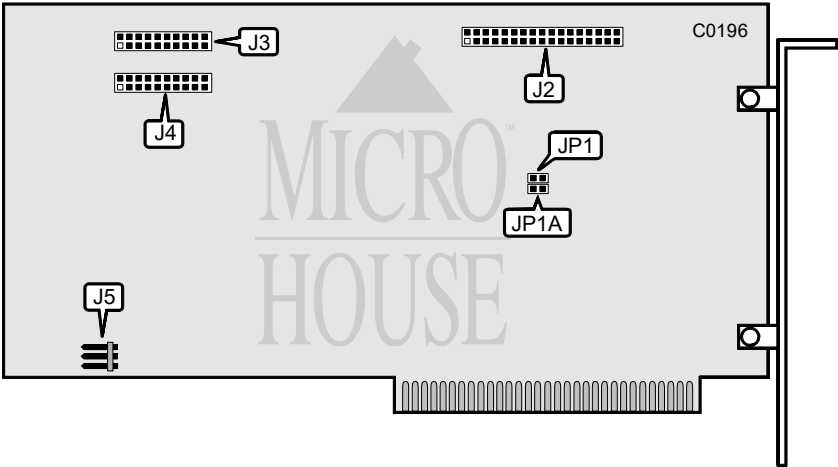# ST11M, ST11R

Q2/92

Data bus: 8-bit, ISA
Size: Half-length, full-height card
Hard drives supported: ST11M: Two MFM ST506/412 drives
                                    ST11R: Two RLL ST506/412 drives
Floppy drives supported: None

CONNECTIONS	
Function	Location
34-pin control cable connector-hard drive	J2
20-pin data cable connector-drive 0	J3
20-pin data cable connector-drive 1	J4
5-pin connector-DC power	J5

BIOS & I/O PORT ADDRESS			
BIOS Address	I/O Port Address	JP1	JP1A
í C800h	320-323h	open	open
D000h	324-327h	closed	open
D800h	328-32Bh	open	closed
E000h (XT only)	32C-32Fh	closed	closed

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ST11M SUPPORTED DISK PARAMETERS			
Capacity	Heads	Cylinders	Sectors
21.4	4	615	17
32.1	6	615	17
42.5	5	977	17
42.8	6	820	17
44.5	5	1024	17
80.2	9	1024	17

ST11R SUPPORTED DISK PARAMETERS			
Capacity	Heads	Cylinders	Sectors
32.7	4	615	26
49.1	6	615	26
21.1	2	667	31
32.7	4	615	26
42.9	4	667	31
65.5	6	820	26
122.7	9	1024	26

MISCELLANEOUS TECHNICAL NOTES

This controller has a built-in low-level format program. To enter the program run the DEBUG utility supplied with DOS and at the prompt enter: G=C800:5. If the error BAD DRIVE!(4) comes up during low-level the controller will stop the format and exit. This is a bug in the controller that causes it to halt on bad sectors that are not flagged in the bad track table. In no way does this mean you have a bad drive! Simply write down the head and cylinder at the point the controller stopped, start the low-level over again and add this to the bad track table. (You must watch closely to catch the head and cylinder; the screen is cleared right after the error is hit.) If it still returns a BAD DRIVE!(4) message on the same head and cylinder, then enter the head and cylinder into the bad track table twice. Once with the actual BFI and once with a BFI 2000 numbers apart from the first. The ST11R is one of the only 8-bit controllers that support 31 sectors per track. The Seagate ST225R hard drive uses 31 sectors per track and thus must use this controller not a regular 26 sectors per track RLL controller.