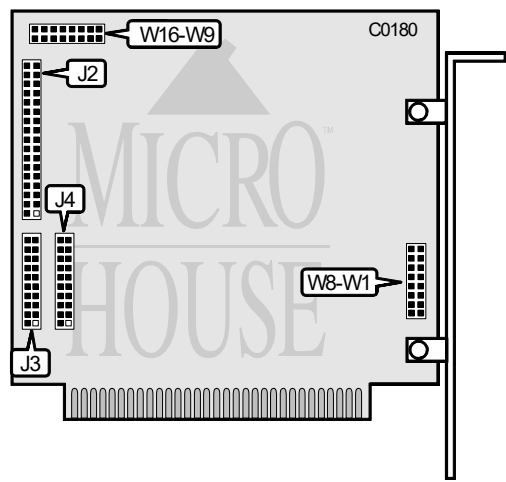


SCIENTIFIC MICRO SYSTEMS
OMTI 5510, OMTI 6510

Q2/92

Data bus: 8-bit, ISA/AT
Size: Half-length, full-height card
Hard drives supported: OMTI 5510: Two MFM ST506/412 drives
OMTI 6510: Two RLL ESDI drives
Floppy drives supported: None
Maximum Hds/Cyls: 16 heads and 2048
Interleave 1:1



Note: Pin 1 on cable connectors is shown for the 5510.
For the 6510, pin orientation is opposite, with pin 1 located in the upper left corner.

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

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SCIENTIFIC MICRO SYSTEMS

OMTI 5510, OMTI 6510

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USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í BIOS enabled	W7	open
BIOS disabled	W7	closed
í BIOS address is C8000h	W8	open
BIOS address is CA000h	W8	closed
í Drive 0 soft sectored (5510 only)	W11	open
Drive 0 hard sectored (5510 only)	W11	closed
í Drive 1 soft sectored (5510 only)	W14	open
Drive 1 hard sectored (5510 only)	W14	closed

I/O PORT ADDRESS		
Address	Jumper W5	Jumper W6
í 320h	open	open
324h	closed	open
328h	open	closed
32Ch	closed	closed

SECTOR CONFIGURATION JUMPERS			
Bytes per Sector	SPT	Jumper W9	Jumper W10
512	18	open	open
256	32	closed	open
í 512	17	open	closed
1024	9	closed	closed

DRIVE CONFIGURATION				
Drive	Drive 0		Drive 1	
Type	Jumper W12	Jumper W13	Jumper W15	Jumper W16
í Fixed	open	open	open	open
Reserved	closed	open	closed	open
Reserved	open	closed	open	closed
Removable	closed	closed	closed	closed

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SCIENTIFIC MICRO SYSTEMS

OMTI 5510, OMTI 6510

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DRIVE TYPE CONFIGURATION						
DRIVE 1			DRIVE 0		BIOS #1002411	
Jumper W1	Jumper W2	Jumper W3	Jumper W4	Cyl.	Hds.	Precomp
closed	closed	closed	closed	2	612	400
open	closed	open	closed	2	612	128
closed	open	closed	open	6	306	128
open	open	open	open	4	306	128

DRIVE CONFIGURATION JUMPERS - BIOS #1002450, #-2451, #-2302 & #-2570,						
W1	W2	W3	W4	HDS	CYLS	WPC
closed	closed	closed	closed	15	918	none
closed	closed	closed	open	4	640	256
closed	closed	open	closed	5	645	320
closed	closed	open	open	4	512	256
closed	open	closed	closed	7	987	none
closed	open	closed	open	2	612	400
closed	open	open	closed	7	634	320
closed	open	open	open	6	306	128
open	closed	closed	closed	11	918	none
open	closed	closed	open	8	512	256
open	closed	open	closed	11	754	none
open	closed	open	open	4	612	256
open	open	closed	closed	5	697	256
open	open	closed	open	2	612	128
open	open	open	closed	6	640	256
open	open	open	open	4	306	128

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SCIENTIFIC MICRO SYSTEMS

OMTI 5510, OMTI 6510

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DRIVE CONFIGURATION JUMPERS - BIOS #1002452						
W1	W2	W3	W4	HDS.	CYLS.	WPC
closed	closed	closed	closed	3	1024	512
open	closed	closed	closed	5	1024	512
closed	closed	open	closed	7	1024	512
open	closed	open	closed	8	1024	512
closed	open	closed	closed	2	612	128
open	open	closed	closed	4	612	128
closed	open	open	closed	2	615	128
open	open	open	closed	4	615	128
closed	closed	closed	open	4	512	256
open	closed	closed	open	6	512	256
closed	closed	open	open	8	512	256
open	closed	open	open	3	697	128
open	open	closed	open	9	925	128
closed	open	closed	open	5	697	128
closed	open	open	open	6	306	128
open	open	open	open	4	306	128

DRIVE CONFIGURATION JUMPERS - BIOS #1002571						
W1	W2	W3	W4	HDS.	CYLS.	WPC
closed	closed	closed	closed	8	1024	none
open	closed	closed	closed	4	612	none
closed	open	closed	closed	6	615	none
open	open	closed	closed	4	616	none
closed	closed	open	closed	7	987	none
open	closed	open	closed	7	1166	none
closed	open	open	closed	11	1224	none
open	open	open	closed	15	1224	none
closed	closed	closed	open	4	820	none
open	closed	closed	open	6	820	none
closed	open	closed	open	5	1024	none
open	open	closed	open	9	1024	none
closed	closed	open	open	5	830	none
open	closed	open	open	7	830	none
closed	open	open	open	10	830	none
open	open	open	open	4	615	none

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SCIENTIFIC MICRO SYSTEMS

OMTI 5510, OMTI 6510

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DRIVE CONFIGURATION JUMPERS - BIOS #1002312						
W1	W2	W3	W4	Hds.	Cyls. (RWC)	Step Rate
open	open	open	open	4	615	25μsec
open	open	open	closed	5	987	10μsec
open	open	closed	open	4	612	25μsec
open	open	closed	closed	8	640	25μsec
open	closed	open	open	4	306 (128)	25μsec
open	closed	open	closed	8	612	25μsec
open	closed	closed	open	10	830	10μsec
open	closed	closed	closed	6	640	25μsec
closed	open	open	open	4	306	25μsec
closed	open	open	closed	7	830	10μsec
closed	open	closed	open	4	612 (128)	25μsec
closed	open	closed	closed	15	918	10μsec
closed	closed	open	open	2	615	25μsec
closed	closed	open	closed	5	980 (700)	25μsec
closed	closed	closed	open	8	1024	10μsec
closed	closed	closed	closed	4	640	25μsec

MISCELLANEOUS TECHNICAL NOTES

W1 through W4 are used to configure the drive type. To support most of the drives on the market, there have been several different BIOS's offered. The different BIOS drive type tables are listed above with the proper jumper settings.