

8. HARDWARE INSTALLATION

8.1 Jumper Configuration

8.1.1 Summary

J1: VMEbus INTERRUPT ACKNOWLEDGE RESPONSE LEVEL

	B0	B2
	O # #	
1	O # #	

J2: VMEbus STANDARD BASE ADDRESS and RAM SIZE

2M-Byte Version

	A23	A21
	O # O # #	
1	O # O # #	

4M-Byte Version

	A23	A21
	O # O # # #	
1	O # O # # #	

J3: VMEbus CONFIGURATION

	# O
1	# O

Enable- -Address space

J4: VMEbus INTERRUPT LINE SELECTION

	1	2	3	4	5	6	7
	# O O O O O O						
1	# O O O O O O						

J5: VMEbus EXTENDED BASE ADDRESS

	A31	A24
	# # # # # # # #	
1	# # # # # # # #	

J6/J10: VSBbus BASE ADDRESS and RAM SIZE

2M-Byte Version

J6 A31

	A24
	# # # # # # # #
1	# # # # # # # #

J10 A23 A21

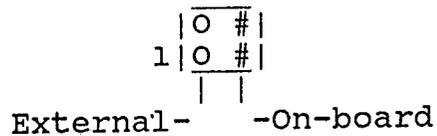
	A23	A21
	O # O # #	
1	O # O # #	

4M-Byte Version

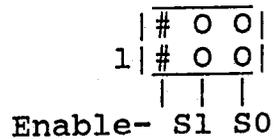
J10 A23 A21

	A23	A21
	O # O # # #	
1	O # O # # #	

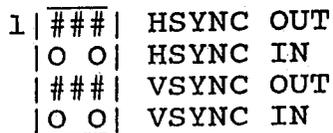
J7: G300B CLOCK SOURCE SELECTION



J8: VSBbus CONFIGURATION

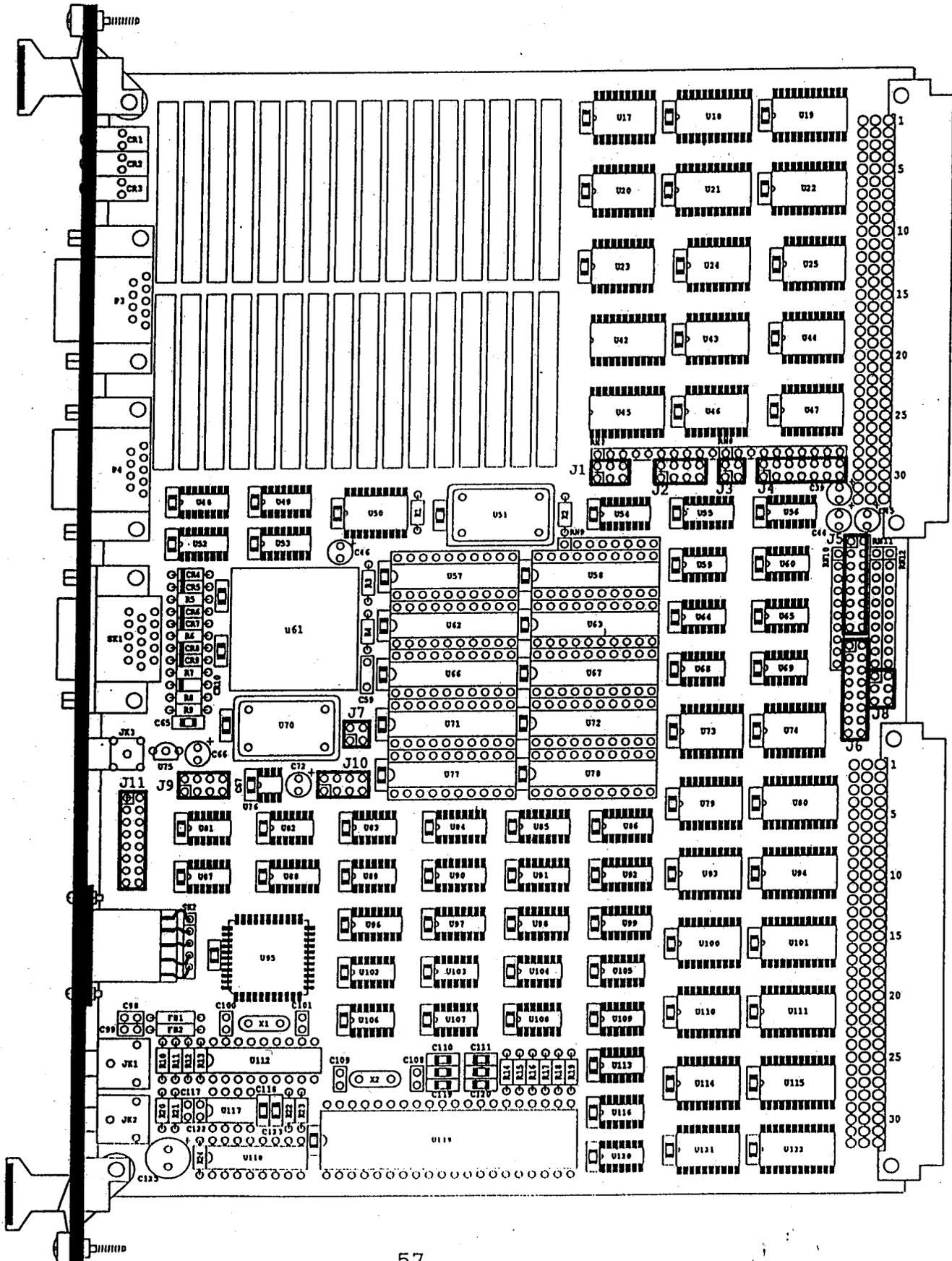


J9: VIDEO SYNC DIRECTION



NOTE: Jumpers are shown in their default settings.

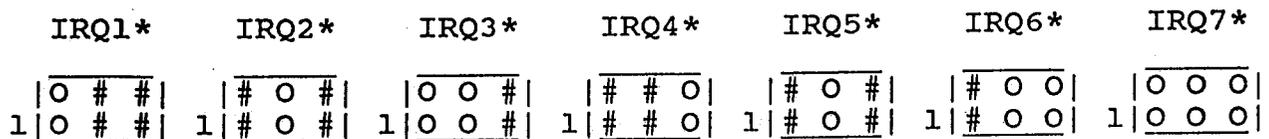
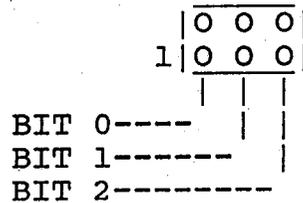
8.2.2 Jumper Locations



8.2 Jumper Functions

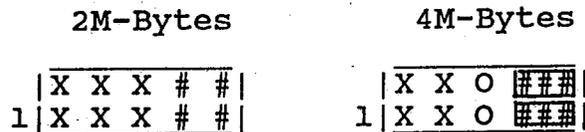
8.2.1 J1: VMEbus Interrupt Level

J1 is used in conjunction with J4 to select which VMEbus interrupt line the MMI-250 will use to signal interrupt requests to the Host. The level is set on J1 as a binary coding of the actual interrupt level where a jumper IN represents a 0 and a jumper OUT represents a 1. The default interrupt level is IRQ1*.



8.2.2 J2: VMEbus Address Space Size

J2 is used to set the size of the VMEbus address space that the MMI-250 will occupy.



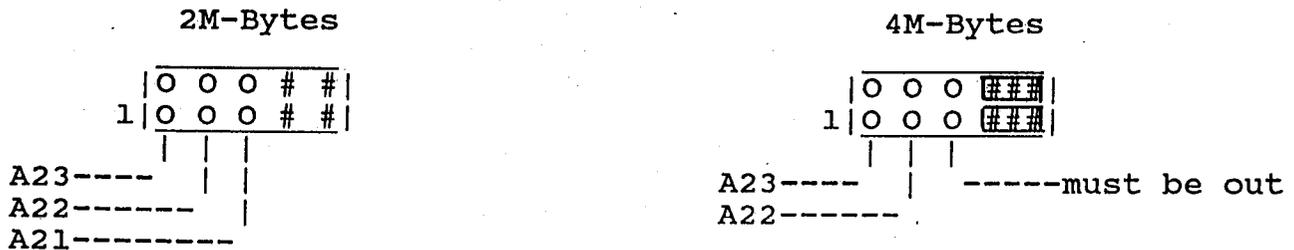
Note: X = don't care
X

8.2.3 J2: VMEbus Standard Base Address

J2 is used to set the VMEbus base address of the MMI-250.

If Standard VMEbus address space is selected via J3, then J2 alone sets the base address. If Extended VMEbus address space is selected via J3, then J2 is used in conjunction with J5 to set the base address.

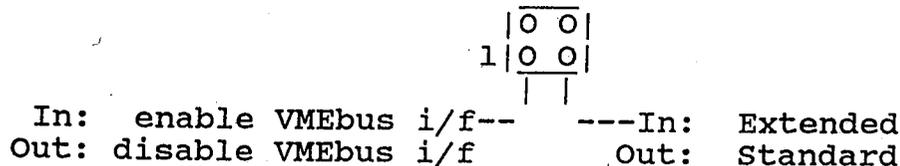
The first three positions of J2 correspond to a VMEbus address lines A23-A21. The base address of the MMI-250 is set by inserting jumpers for address lines that are required to be 0, and leaving out jumpers for address lines that are required to be 1. The default Standard VMEbus address for the 2M-byte version is \$A00000. The default Standard VMEbus address for the 4M-byte version is \$800000.



8.2.4 J3: VMEbus Configuration

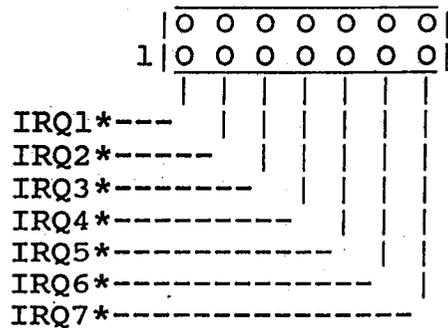
J3 is used to enable the VMEbus interface and to select Standard or Extended address space. It may be desirable to disable the VMEbus interface when the MMI-250 will only be accessed via the VSBbus, in order to avoid occupying VMEbus address space.

The default condition is VMEbus interface enabled.
The default VMEbus address space is Extended.



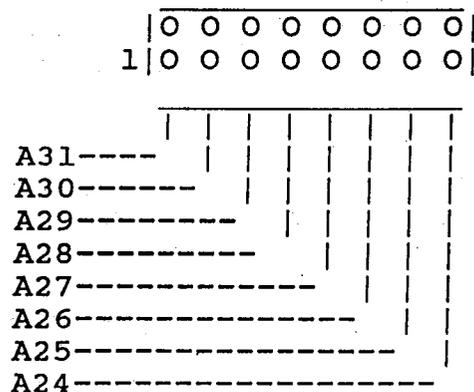
8.2.5 J4: VMEbus Interrupt Line Selection

J4 is used in conjunction with J1 to select which VMEbus interrupt line the MMI-250 will use to signal interrupt requests to the Host. Each position of J4 corresponds to one of the 7 VMEbus interrupt lines. The selection is made on J4 by inserting a jumper in the position corresponding to the interrupt level set on J1. The default VMEbus interrupt level is IRQ1*.



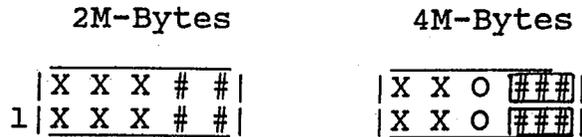
8.2.6 J5: VMEbus Extended Base Address

J5 is used in conjunction with J2 to set the VMEbus base address of the MMI-250 for Extended Address Space accesses. If Standard VMEbus address space is selected via J3, then J5 has no effect and can be ignored. Each position of J5 corresponds to a VMEbus address line. The base address is set by inserting jumpers for address lines that are required to be 0, and leaving out jumpers for address lines that are required to be 1. The default Extended VMEbus address for the 2M-byte version is \$00A00000. The default Extended VMEbus address for the 4M-byte version is \$00800000.



8.2.7 J10: VSBbus Address Space Size

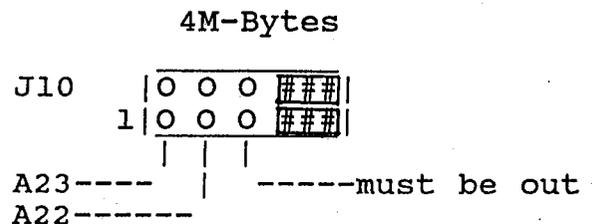
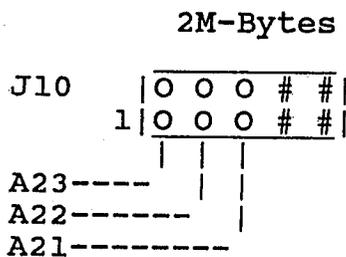
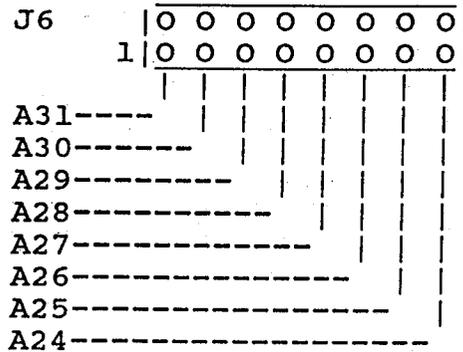
J10 is used to set the size of the VSBbus address space that the MMI-250 will occupy.



Note: X = don't care
X

8.2.8 J6/J10: VSBbus Base Address

J6 and J10 set the VSBbus base address of the MMI-250. Each position of J6 and the first three positions of J10 correspond to a VSBbus address line. The base address is set by inserting jumpers for address lines that are required to be 0, and leaving out jumpers for address lines that are required to be 1. The default VSBbus address for the 2M-byte version is \$00A00000. The default VSBbus address for the 4M-byte version is \$00800000.



8.2.9 J8: VSBbus Configuration

J8 is used to enable the VSBbus interface and to select the VSBbus address space. If the P2 connector of the MMI-250 is not plugged in to a terminated VSBbus backplane, then the VSBbus interface must be disabled.

	0	0	0	
1	0	0	0	

In: enable VSBbus i/f-- | -Space 0
 Out: disable VSBbus i/f ---Space 1

ILLEGAL	ALTERNATE	I/O	SYSTEM
# # #	# # 0	# 0 #	# 0 0
1 # # #	1 # # 0	1 # 0 #	1 # 0 0

The default condition is VSBbus enabled.
 The default VSBbus address space is SYSTEM.

8.2.10 J9: Video Sync Direction

J9 is used to select the routing of the video sync signals VSYNC and HSYNC. These signals can be either outputs from or inputs to the G300B color graphics controller chip depending on the programmed mode of the G300B.

1	0	0	HSYNC OUT
	0	0	HSYNC IN
	0	0	VSYNC OUT
	0	0	VSYNC IN