

Multiproduct Boards

Memory Boards

512/2048 Memory Expansion Boards (000307 and 000308)

| Jumper Settings | Address Range * |
|--------------------|----------------------|
| E1 to E2, E5 to E6 | 1 to 3 Megabytes |
| E1 to E2, E4 to E5 | 2.5 to 4.5 Megabytes |
| E2 to E3, E5 to E6 | 4.5 to 6.5 Megabytes |
| E2 to E3, E4 to E5 | 6.5 to 8.5 Megabytes |

* Memory address range is dependent on system memory board configuration.

Controller Boards

Optional IDE Controller Board (002172)

| Function | Position 1 | Position 2 | Position 3 |
|-------------------|------------|------------|------------|
| Secondary Channel | ON | | |
| Primary Channel | OFF | | |
| IRQ 15 | | OFF | OFF |
| IRQ 14 | | ON | OFF |
| IRQ 10 | | OFF | ON |
| IRQ11 | | ON | ON |

Hard Drive Controller Board (WD1002WAH)

| Jumper/Setting * | Function |
|------------------|--------------------|
| W1 1 - 2 | Primary controller |
| W2 NL | LED operation |
| J4 | No connections |

* Jumpers set at the factory. Do not change.

ESDI Hard Drive Controller Board (WD1005WAH)

| Jumper | Status |
|--------|--------------------------|
| W1 | Reserved - Not installed |
| W2 | Reserved - Not installed |
| W3 | Reserved - 2 to 3 |

ESDI 130/300 Hard Drive Controller Board (WD1007AWAH)

| Jumper | Setting | Function |
|--------|-----------|----------|
| J5 | No jumper | Reserved |
| W3 | No jumper | Reserved |
| W8 | Jumper ON | Reserved |
| W9 | No jumper | Reserved |
| W10 | No jumper | Reserved |
| W11 | No jumper | Reserved |
| W12 | No jumper | Reserved |

Advanced ESDI Controller (WD1009)

EISA OPERATION - SW500 Settings

Primary or Secondary Controller

| | |
|----|-------|
| S1 | OFF * |
| S2 | ON * |
| S3 | OFF * |
| S4 | ON * |
| S5 | OFF |
| S6 | ON |

* Under EISA operation, the auto-configuration utility overrides these default settings.

Multiproduct Boards

Controller Boards (Continued)

Advanced ESDI Controller (WD1009)

ISA Operation - SW500 Settings

| Primary Controller | Secondary Controller |
|--------------------|----------------------|
| S1 | OFF |
| S2 | ON |
| S3 | OFF |
| S4 | ON* |
| S5 | OFF |
| S6 | OFF |

* This switch does not apply under ISA operation because ISA data transfers are programmed I/O transfers and not DMA (direct memory access).

Advanced ESDI Controller (WD1009)

SW500 Functions

| 1 | 2 | 3 | 4 | 5 | 6 | Function |
|------|-----|------|------|-----|---|-------------------------------------|
| OFF* | | | | | | Primary hard drive address select |
| ON | | | | | | Secondary hard drive address select |
| | ON* | OFF* | | | | Interrupt select IRQ14 |
| | OFF | OFF | | | | Interrupt select IRQ15 |
| | OFF | ON | | | | Interrupt select IRQ12 |
| | ON | ON | | | | Interrupt select IRQ11 |
| | | ON* | | | | DMA channel 6 |
| | | OFF | | | | DMA channel 3 |
| | | | OFF* | | | Normal Addressing ** |
| | | | ON | | | Slot-specific addressing |
| | | | | ON* | | EISA |
| | | | | OFF | | ISA |

* Default.

** No software drivers available at this time for slot-specific addressing.

Diskette/Printer Board (000181-011)

| Switch | Setting | Function |
|--------|---------|----------------------------|
| SW1-1 | OFF | Reserved |
| SW1-2 | ON* | Enable parallel interface |
| | OFF | Disable parallel interface |
| SW1-3 | OFF | Reserved |
| SW1-4 | OFF | Reserved |

* Default.

Multipurpose Controller Board (000142)

| Jumper | Pin 1 to Pin 2 | Pin 2 to Pin 3 |
|--------|---------------------------------------|-------------------------------------|
| J1 | Secondary diskette controller address | Primary diskette controller address |
| J2 * | Serial interface COM1 | Serial interface COM2 |
| J4 * | Serial interface IRQ4 | Serial interface IRQ3 |
| J3 | Disable parallel interface | Enable parallel interface |

* J2 and J4 must be changed together.

Multiproduct Boards

Controller Boards (Continued)

Multipurpose Controller Boards (000181-001/000181-021) and Multipurpose Hard Drive Controller Boards (000336-001/000336-021)

| Jumper/Switch Setting | Function | |
|-------------------------------|----------|---------------------------------------|
| J1 - Open connectors on left | | Serial interface COM1 IRQ4 * |
| J1 - Open connectors on right | | Serial interface COM2 IRQ3 |
| J2 - Open connectors on left | | Primary diskette controller address * |
| J2 - Open connectors on right | | Secondary diskette controller address |
| SW1-1 ¹ | ON | Enable hard drive * |
| | OFF | Disable hard drive |
| SW1-2 | ON | Enable parallel interface * |
| | OFF | Disable parallel interface |
| SW1-3 ² | ON | Enable serial interface * |
| | OFF | Disable serial interface |
| SW1-4 | OFF | Reserved |

* Default.

¹ SW1-1 reserved on 000181 boards.

² SW1-3 reserved on 000181-001 (all revisions) and 000336-001 Rev. P or earlier.

Multipurpose Hard Drive Controller Board (000519, 000815, and 000957)

| Switch | Setting | Function |
|---------|---------|---|
| SW500-1 | OFF * | Primary diskette and hard drive address select |
| | ON | Secondary diskette and hard drive address select |
| SW500-2 | ON* | Enable high-speed transfer rates (for systems with 1.2-MB diskette drive or 40-MB tape drive) |
| | OFF | Disable high-speed transfer rates (for systems without 1.2-MB diskette drive or 40-MB tape drive) |
| SW500-3 | OFF * | Enable Hard Drive |
| | ON | Disable Hard Drive |
| SW500-4 | OFF * | Serial interface COM1 IRQ4 |
| | ON | Serial interface COM2 IRQ3 |
| SW500-5 | OFF * | Enable serial interface |
| | ON | Disable serial interface |
| SW500-6 | OFF * | Enable printer interface |
| | ON | Disable printer interface |

* Default.

Tape Adapter (000774)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Function |
|-----|------|-----|------|-----|------|-----|------|-----------------------|
| ON* | OFF* | | | | | | | Interrupt select IRQ5 |
| OFF | ON | | | | | | | Interrupt select IRQ3 |
| | | ON* | OFF* | ON* | OFF* | | | DMA channel 3 |
| | | OFF | ON | OFF | ON | | | DMA channel 1 |
| | | | | | | ON* | OFF* | Base address 300 hex |
| | | | | | | OFF | ON | Base address 200 hex |

* Default.

Multiproduct Boards

Controller Boards (Continued)

ESDI External 300/600 Hard Drive Controller Board (001091)

| SW500 Settings | | | | |
|----------------|------|-----|---|--------------------------------------|
| 1 | 2 | 3 | 4 | Function |
| OFF* | | | | Primary hard drive address select ** |
| ON | | | | Secondary hard drive address select |
| ON* | OFF* | | | Interrupt select IRQ14 |
| OFF | OFF | | | Interrupt select IRQ15 |
| OFF | ON | | | Interrupt select IRQ12 |
| ON | ON | | | Interrupt select IRQ11 |
| | | OFF | | Reserved |

* Default.

** Requires IRQ14 setting.

15-MHz ESDI Controller Board (001283 and 001628)

| 1 | 2 | 3 | 4 | Function |
|------|------|-----|---|--------------------------------|
| OFF* | | | | Primary address 3FX and 1FX ** |
| ON | | | | Secondary address 37X and 17X |
| ON* | OFF* | | | Interrupt select IRQ14 |
| OFF | OFF | | | Interrupt select IRQ15 |
| OFF | ON | | | Interrupt select IRQ12 |
| ON | ON | | | Interrupt select IRQ11 |
| | | OFF | | Reserved |

* Default.

** Requires IRQ14 setting.

SCSI Option Adapter (001379)

SW1 Settings

| 1 | 2 | 3 | 4 | Function |
|------|------|---|---|-----------------------|
| ON * | | | | Base I/O Address 330h |
| OFF | | | | Base I/O Address 130h |
| | OFF | | | Reserved |
| | OFF* | | | DMA channel 7 |
| | ON | | | DMA channel 5 |
| | OFF* | | | Interrupt select IRQ5 |
| | ON | | | Interrupt select IRQ3 |

* Default.

ESDI/Diskette Controller (001472)

| Jumper Setting | Function |
|----------------|----------|
| Jumper ON | Enabled |
| Jumper OFF | Disabled |

SW1 Settings

| 1 | 2 | 3 | 4 | Function |
|------|------|-----|---|-------------------------------|
| OFF* | | | | Primary Address 3FX and 1FX |
| ON | | | | Secondary Address 37X and 17X |
| ON* | OFF* | | | Interrupt select IRQ14 |
| OFF | OFF | | | Interrupt select IRQ15 |
| OFF | ON | | | Interrupt select IRQ12 |
| ON | ON | | | Interrupt select IRQ11 |
| | | OFF | | Reserved |

* Default.

Multiproduct Boards

Controller Boards (Continued)

SCSI Compression Adapter (001846)

SW1 Settings

| 1 | 2 | 3 | 4 | Function |
|------|------|-------|-------|------------------|
| ON * | ON * | | | 330h (Primary) |
| OFF | ON | | | 130h (Secondary) |
| ON | OFF | | | 120h (Tertiary) |
| OFF | OFF | | | Reserved |
| | | OFF * | | DMA 7 |
| | | ON | | DMA 5 |
| | | | OFF * | IRQ5 |
| | | | ON | IRQ3 |

* Default.

6260 SCSI-2 Controller (002831 and 004004)

| Switch | Function | Setting |
|--------|-----------------------------------|---------------------|
| 1 - 2 | ROM Disabled * | Open/Open |
| | C8000 ROM Address | Closed/Open |
| | CC000 ROM Address | Open/Closed |
| | D8000 ROM Address | Closed/Closed |
| 3 | Primary I/O-340h Address * | Open |
| | Secondary I/O-140h Address | Closed |
| 4 - 5 | IRQ 11 Selected * | Open/Open |
| | IRQ 12 Selected | Closed/Open |
| | IRQ 9 Selected | Open/Closed |
| | IRQ 10 Selected | Closed/Closed |
| 6 | Disconnects Enabled * | Open |
| | Disconnects Disabled | Closed |
| 7 | Synchronous Negotiation Enabled * | Open |
| | Synchronous Negotiation | Closed |
| | Disabled | |
| 8 | Parity Enabled * | Open |
| | Parity Disabled | Closed |
| J106 | ISA * | On (Installed) |
| | EISA | Off (Not Installed) |

* Default.

Video Boards

Video Display Controller Boards (000031, 000160, and 000345)

| J3 | J5 | Function |
|-----|-----|---|
| 2-3 | 2-3 | Enable RGBI and composite video (high-scan) (Desktop default) |
| 1-2 | 1-2 | Disable RGBI and composite video (high-scan) (Portable default) |

Video Display Controller Board (000525)

| J3/5 | Function |
|------|--|
| 2-3 | Enable RGBI and composite video (high-scan) (Desktops default) |
| 1-2 | Disable RGBI and composite video (high-scan) (Portables default) |

Multiproduct Boards

Video Boards (Continued)

Compaq Enhanced Color Graphics Board (000410 and 000471)

SW1 Settings (As the Only/Primary Video Display Controller Board)

| 1 | 2 | 3 | 4 | Monitor Type | Power-On Mode | Mode |
|-----|-----|-----|-----|--|---------------------|-------|
| OFF | ON | ON | OFF | Compaq Color Compatible Enh Color Compaq Dual-Mode | 80 x 25 (640 x 350) | Color |
| ON | ON | ON | OFF | Compaq Color Compatible Enh Color Compaq Dual-Mode | 80 x 25 (640 x 200) | Color |
| OFF | OFF | OFF | ON | RGBI Color Compaq Dual-Mode | 80 x 25 (640 x 200) | Color |
| ON | OFF | OFF | ON | RGBI Color Compaq Dual-Mode | 40 x 25 (320 x 200) | Color |
| OFF | OFF | ON | OFF | Compaq Dual-Mode | 80 x 25 (720 x 350) | Mono |

SW1 Settings (As the Secondary Video Display Controller Board)

| 1 | 2 | 3 | 4 | Monitor Type | Power-On Mode | Mode |
|-----|-----|-----|----|--|---------------------|-------|
| OFF | OFF | ON | ON | Compaq Color Compatible Enh Color Compaq Dual-Mode | 80 x 25 (640 x 350) | Color |
| ON | OFF | ON | ON | Compaq Color Compatible Enh Color Compaq Dual-Mode | 80 x 25 (640 x 200) | Color |
| OFF | ON | ON | ON | RGBI Color Compaq Dual-Mode | 80 x 25 (640 x 200) | Color |
| ON | ON | ON | ON | RGBI Color Compaq Dual-Mode | 40 x 25 (320 x 200) | Color |
| OFF | ON | OFF | ON | Compaq Dual-Mode | 80 x 25 (720 x 350) | Mono |

SW2 Settings

| 1 | 2 | 3 | 4 | 5 | 6 | Monitor Type |
|-----|-----|-----|----|-----|----|--|
| OFF | OFF | | | | | Compaq Color, Compatible Enhanced Color (external) |
| ON | OFF | | | | | RGBI Color (external) |
| OFF | ON | | | | | Compaq Dual-Mode (external) |
| ON | ON | | | | | No external (Portables) |
| | | OFF | | | | Compaq Dual-Mode internal (Compaq Portable, Plus, Portable 286, Portable II) |
| | | ON | | | | No internal (Portable III *, Portable 386 *, Desktops) |
| | | | ON | OFF | ON | Reserved |

* Set system board setting to monochrome mode.

SW3 Settings (000410 only)

If installed, all OFF (Reserved)

Jumper P1 (External Monitor)

| Pins | Monitor Type |
|-------|--------------------------------|
| 1 - 2 | Compaq Color or Enhanced Color |
| 2 - 3 | RGBI Color or Compaq Dual Mode |

Jumper JP3

| Pins | Address Select |
|-------|----------------|
| 1 - 2 | 3xxh (default) |
| 2 - 3 | 2xxh |

Multiproduct Boards

Video Boards (Continued)

Minimum System ROM Required for CECGB

| Product | Minimum ROM |
|-----------------------|-------------|
| Compaq Portable II | F |
| Compaq Portable III | K |
| Compaq Portable 386 | H |
| Compaq Deskpro 386 | E |
| Compaq Deskpro 386/20 | H |

CECGB Video ROM Revision (Spare Part Number 106686-001)

| ROM | Number on ROM |
|-----|---------------|
| B | 108281-001 |
| C | 106633-001 |
| D | 106633-002 |
| E | 106633-003 |

Compaq Plasma Display Controller Board (000932)

| Jumper | Function | Setting |
|--------|----------|---------------|
| E1 | Reserved | Not installed |
| E2 | Reserved | Installed |

Video Graphics Controller Board (000806, 001241, and 109360)

| Jumper | Function | Setting |
|------------|-----------|---------------------------|
| J1 or W1 * | Video RAM | 1-2, 16-bit 2-3, 8-bit |
| J2 or W2 * | Video ROM | 2-3, 8-bit 1-2, 16-bit |

* Default.

Minimum System ROM Required for VGA

| Product | Minimum ROM |
|-----------------------|-------------|
| Compaq Portable III | K |
| Compaq Portable 386 | H |
| Compaq Deskpro 386 | E |
| Compaq Deskpro 386/20 | H |
| Compaq Deskpro 386/25 | K.2 |

Multiproduct Boards

Video Boards (Continued)

VGC ROM Locations

| 000806 Board | 001241 and 109360 Boards |
|--------------|--------------------------|
| U14 EVEN | U11 EVEN |
| U23 ODD | U12 ODD |

VGC ROM Revision (Spare Part Number 109315-001)

| Revision | Number on ODD ROM | Number on EVEN ROM |
|----------|-------------------|--------------------|
| A.0 | 109327-001 | 109328-001 |
| A.1 | 109327-002 | 109328-002 |
| A.2 | 109327-003 | 109328-003 |
| B.0 | 109793-001 | 109794-001 |
| B.1 | 109793-002 | 109794-002 |
| D.0 | 109793-003 | 109794-003 |

Advanced Graphics 1024 Board (109958)

| Jumper W1 Setting | Function |
|-------------------|----------------------------------|
| 2 - 3 * | Select address space 290h - 29Fh |
| 1 - 2 | Select address space 280h - 28Fh |

* Default.

QVision 1024/E (001924, 002664, 002930) and QVision 1280/E (002727) Controllers

| SW1 Settings | | |
|--------------|-------|-------------------------------|
| 1 | 2 | Function |
| ON | | Power-up as Secondary Adapter |
| OFF * | | Power-up as Primary Adapter |
| | ON | Test |
| | OFF * | Normal |

* Default.

QVision 1024/I (002163 and 002948) and QVision 1280/I (002951) Controllers

| SW1 Settings | | |
|--------------|------|-----------------------|
| 1 | 2 | Function |
| OFF* | | V3 (Virtual ID bit 3) |
| OFF* | | V2 (Virtual ID bit 2) |
| OFF* | | V1 (Virtual ID bit 1) |
| OFF* | | V0 (Virtual ID bit 0) |
| | OFF* | RAM interface 16 bits |
| | ON | RAM interface 8 bits |
| | OFF | ROM interface 16 bits |
| | ON* | ROM interface 8 bits |
| | OFF* | 32 K ROM |
| | ON | 24 K ROM |
| | ON | Test |
| | OFF* | Normal |

* Default.

Multiproduct Boards

Video Boards (Continued)

Matrox MGA Millennium (005409, 006443, 223329/oem)

| Switch | Settings | Function |
|--------|---------------|------------------|
| SW1* | OFF (default) | BIOS Protected |
| | ON | BIOS Unprotected |
| SW2** | OFF (default) | VGA Enabled |
| | ON | VGA Disabled |

* **Switch 1: Flash EPROM Switch for VGA BIOS.** If you need to upgrade your VGA BIOS in the future, reprogram the flash EPROM using a software utility. Set Switch 1 to "ON" to allow reprogramming of the flash EPROM. After reprogramming, set Switch 1 to OFF. You must not leave Switch 1 on during normal usage as the flash EPROM in this state is susceptible to being erased without warning.

** **Switch 2: VGA Enable/Disable Switch.** By default, the VGA of your MGA board is enabled (Switch 2 = OFF) for single screen operation. This means that you must remove or disable your existing VGA if you have one. If the VGA is on the mother board of your PCI system, it should be disabled automatically.

To work in a dual-screen configuration, set Switch 2 to "ON." In this case, you will also be using either a VGA in another slot (or on your system's motherboard), or another MGA board for output to the second monitor.

Multiproduct Boards

Miscellaneous Information

Asynchronous Communications/Clock Board (000061)

| Jumper | Pin 1 to Pin 2 | Pin 2 to Pin 3 |
|---------|--|--------------------|
| J702 * | COM2 address (2FX) | COM1 address (3FX) |
| J703 * | IRQ3 | IRQ4 |
| Jumper | Status | |
| J704 | Jumper enables 8th slot. No jumper disables 8th slot | |
| J705 ** | Jumper enables clock. No jumper disables clock | |
| Shunt | Status | |
| U13 | Pins 5 to 12, 6 to 11, 7 to 10, 8 to 9 connected Serial RS232C operation | |
| | Pins 1 to 16, 2 to 15, 3 to 14, 4 to 13 connected 20-mA current loop operation | |

* Jumpers J702 and J703 must be changed together.

** If no physical jumper, clock is enabled.

Serial/Parallel Interface Board (000570)

| 1 | 2 | 3 | 4 | 5 | 6 | Function |
|-----|-----|-----|-----|----|---|---|
| OFF | | | | | | Reserved (default) |
| | ON | | | | | Enable serial interface (default) |
| | OFF | | | | | Disable serial interface |
| | | OFF | ON | | | Parallel printer interface LPT2 (default) |
| | | ON | ON | | | Parallel printer interface LPT1 |
| | | ON | OFF | | | Parallel printer interface LPT3 |
| | | OFF | OFF | | | Disable parallel printer interface |
| | | | OFF | ON | | Serial interface COM2 (default) |
| | | | ON | ON | | Serial interface COM1 |

Serial/Parallel Interface Board (000990)

| 1 | 2 | 3 | 4 | 5 | 6 | Function |
|-----|-----|-----|-----|---|---|--|
| OFF | OFF | | | | | Reserved (default) |
| | ON | ON | | | | Parallel interface LPT1 3BC IRQ7 |
| | OFF | ON | | | | Parallel Interface LPT2, default, 378 IRQ5 |
| | ON | OFF | | | | Parallel interface LPT3 278 * |
| | OFF | OFF | | | | Disable parallel interface |
| | | ON | ON | | | Serial interface COM1 |
| | | OFF | ON | | | Serial interface COM2 (default) |
| | | OFF | OFF | | | Disable serial interface |

* If selecting LPT3, jumper pins 1 and 2 to select IRQ 5. Jumper pins 2 and 3 to select IRQ 7.

Note: If the interface is disabled, the E1 jumper connector should be removed entirely.

Multiproduct Boards

Sound Boards

Media Vision Pro Audio Spectrum 16 Sound Board Settings

This section contains the Compaq default settings for the Spectrum 16 sound board. To ensure optimal performance and integration, Compaq has changed some of the original default settings on the board. Settings listed in this section are correct for use in your system. They may not agree with those listed in your *Spectrum Multimedia Sound Card User's Guide*.

CD-ROM Interface

| Setting Type | Hardware Selectable Jumper | Software Selectable Resource Utility | Original Setting | Available | Compaq Default |
|--------------|----------------------------|--------------------------------------|------------------|--|----------------|
| IRQ Select | J14 | No | IRQ 3 | IRQ 3,4,5,6 | IRQ 5 |
| DMA Select | N/A | | | | |
| I/O Address | | No | 340h 34Fh | 300h- 30Fh 310h- 31Fh 330h- 33Fh 340h- 34Fh | 300-33Fh |

J14 Matrix

| Pins | IRQ Channel |
|------|-----------------------------|
| 1-2 | IRQ6 (Used by the diskette) |
| 3-4 | IRQQ5 (Compaq default) |
| 5-6 | IRQ4 |
| 7-8 | IRQ8 |

J15 Matrix

| Pins | I/O Address |
|----------|-------------------------|
| 1-3, 2-4 | 340h (original setting) |
| 3-5, 2-4 | 330h (Compaq default) |
| 1-3, 4-6 | 310h |
| 3-5, 4-6 | 300h |

Multiproduct Boards

Sound Boards (Continued)

Media Vision Pro Audio Spectrum Sound Board Jumper Settings

| Jumper | Function |
|-------------------|--------------------------|
| 1 (MSEL) | Shunt is present, parked |
| 2 (DASO) | None present |
| 3 (DASI) | Shunt is present, parked |
| 4 (DBSO) | Shunt is present, parked |
| 5 (DBS1) | Shunt is present, parked |
| 6 (ISO) | None present |
| 7 (IS1) | Shunt is present, parked |
| 8 | Shunt is present, parked |
| 9 | Shunt is present, parked |
| 10 | Shunt is present, parked |
| 11 | None present |
| 12 (PINS 2 and 3) | Shunt is present, parked |
| 13 (PINS 2 and 3) | Shunt is present, parked |
| 14 (PINS 6 and 7) | Shunt is present, parked |
| 15 (PINS 1 and 2) | Shunt is present, parked |
| 16 | Shunt is present, parked |
| 17 | Shunt is present, parked |
| 18 | Shunt is present, parked |
| 19 | None present |
| 20 | None present |
| 21 | None present |
| 22 | None present |
| 23 | None present |
| 24 | Shunt is present, parked |
| 25 | None present |
| 26 | Shunt is present, parked |
| 27 | None present |
| 28 | None present |
| 29 | None present |
| 30 | None present |

Media Vision Pro Audio Spectrum 16 Sound Board

| Setting Type | Hardware Selectable Jumper | Software Selectable Resource Utility | Original Setting | Available | Compaq Default |
|--------------|----------------------------|---|------------------|---|----------------|
| IRQ Select | No | INSTALL.EXE or AUTOEXEC.BAT command line switch | IRQ7 | IRQs selectable: 2 (9), 3, 5, 7, 10, 11, 12, and 15 | IRQ 10 |
| DMA Select | No | INSTALL.EXE or AUTOEXEC.BAT command line switch | DMA3 | DMA's selectable: 0, 1, 2, 3, 5, 6, 7 DMA's not recommended: 2 | DMA7 |
| I/O Address | J2 | No | | 280h - 283h 288h-28Bh 384h-387h 388h-38Bh 38Ch-38Fh | 388h-38Bh |

Multiproduct Boards

Sound Boards (Continued)

Sound Blaster Emulation

| Setting Type | Hardware Selectable Jumper | Software Selectable Resource Utility | Original Setting | Available | Compaq Default |
|--------------|----------------------------|---|------------------|-------------------------------------|--|
| IRQ Select | No | INSTALL.EXE or AUTOEXEC.BAT command line switch | IRQ5 | IRQs selectable: 2 (9), 3, 5, and 7 | IRQ 7 can be used if printer does not require an interrupt |
| DMA Select | No | INSTALL.EXE or AUTOEXEC.BAT command line switch | DMA1 | DMAselectable: 0, 1, 3 | DMA1 |
| I/O Address | No | INSTALL.EXE or AUTOEXEC.BAT command line switch | 220h - 22Fh | 220h - 22h 230h - 23Fh 240h - 24Fh | 220h-22Fh |

MPU-401 Emulator

| Setting Type | Hardware Selectable Jumper | Software Selectable Resource Utility | Original Setting | Available | Compaq Default |
|--------------|----------------------------|--|------------------|-------------------------------------|-------------------------------|
| IRQ Select | No | INSTALL.EXE or AUTOEXEC.BAT disabled switch | IRQ2 9 | IRQs selectable: 2 (9), 3, 5, and 7 | IRQ 2 Resource Disabled |
| | | | | IRQs not recommended: 3, 5, 7 | |
| DMA Select | No | INSTALL.EXE or AUTOEXEC.BAT disabled command line switch | 300h - 32Fh | 300h - 32Fh 330h-35Fh | 300h - 32Fh Resource Disabled |
| I/O Address | No | | | | |

Game Port

| Setting Type | Hardware Selectable Jumper | Software Selectable Resource Utility | Original Setting | Available | Compaq Default |
|--------------------|----------------------------|--------------------------------------|------------------|-----------|----------------|
| IRQ Select | N/A | | | | |
| DMA Select | N/A | | | | |
| I/O Address Select | No | Enable Only | 201h | 201h | 201h |

Multiproduct Boards

Sound Boards (Continued)

Sound Blaster Sound Board

JP14 Connector

| Pin | Description | |
|-----|-------------|--|
| 1 | | MICGND: Mic input ground |
| 2 | | MICGND: Mic input ground |
| 3 | | MIC IN: Mic input |
| 4 | | SPKGND: Speaker output ground |
| 5 | SPKR | Speaker output: Right channel Maximum output: 0.8 Vrms at 10k ohms for line-out. 3 Vrms at 4 ohms for speaker out. |
| 6 | SPKR | Speaker output: Left channel Maximum output: 0.8 Vrms at 10k ohms for line-out. 3 Vrms at 4 ohms for speaker out. |
| 7 | SPKRL | Speaker output return signal: Left channel |
| 8 | SPKRL | Speaker output return signal: Right channel |

JP15 Connector

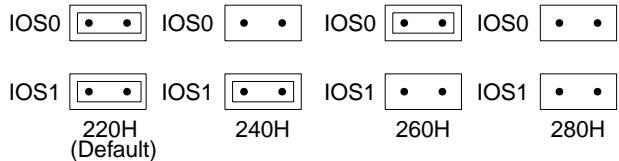
| Pin | Description | |
|-----|-------------|--|
| 1 | SPKR | Speaker output: Right channel Maximum output: 0.8 Vrms at 10k ohms for line-out. 3 Vrms at 4 ohms for speaker out. |
| 2 | SPKRR | Speaker output return signal: Right channel |

Multiproduct Boards

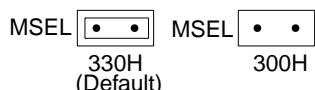
Sound Boards (Continued)

"Sound Blaster" Sound Board Jumper Settings

BASE I/O ADDRESS OF AUDIO INTERFACE

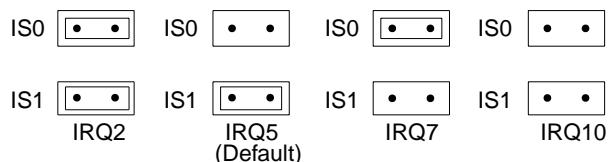


MIDI PORT INTERFACE



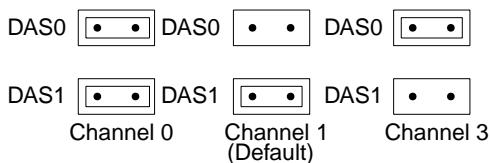
IRQ LINE OF AUDIO INTERFACE

If you need to change the interrupt and the software you are using runs mainly on Windows, you can use interrupt 7.

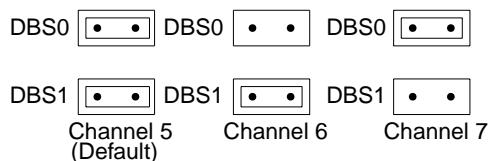


DMA CHANNEL OF AUDIO INTERFACE

The 8-bit DMA channel is for 8-bit digitized sound transfer. Software supporting Sound Blaster uses only channel 1 for sound transfer.



The 16-bit DMA channel is for 16-bit digitized sound transfer. Since not many peripheral cards use the 16-bit DMA channel, you can select any one.

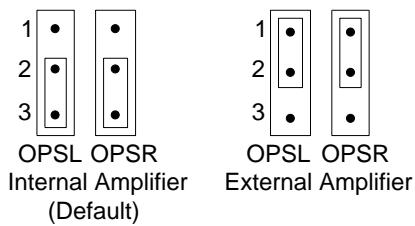


Multiproduct Boards

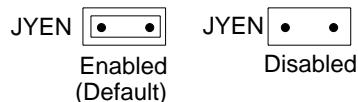
Sound Boards (Continued)

"Sound Blaster" Sound Board Jumper Settings

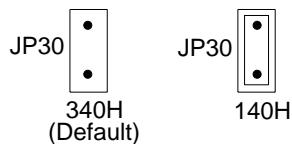
AUDIO OUTPUT AMPLIFIER



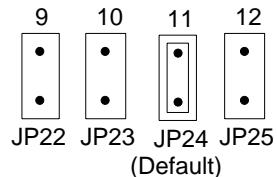
JOYSTICK PORT



BASE I/O ADDRESS OF SCSI INTERFACE

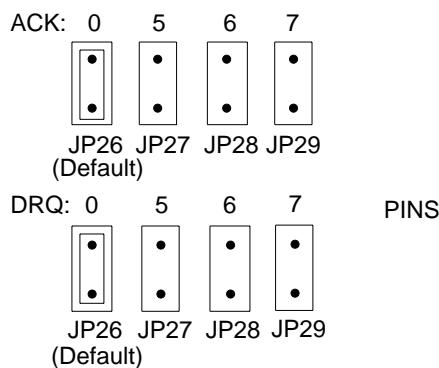


IRQ LINE OF SCSI INTERFACE



| | IRQ | | | |
|-------|-----|-----|-----|-----|
| | 9 | 10 | 11 | 12 |
| JP 22 | on | off | OFF | off |
| JP 23 | off | on | OFF | off |
| JP 24 | off | off | ON | off |
| JP 25 | off | off | OFF | on |

DMA CHANNEL OF SCSI INTERFACE



SELECTED CHANNEL

| | C0 | C5 | C6 | C7 |
|--------|-----|-----|-----|-----|
| ACK: 0 | ON | off | off | off |
| DRQ: 0 | ON | off | off | off |
| ACK: 5 | OFF | on | off | off |
| DRQ: 5 | OFF | on | off | off |
| ACK: 6 | OFF | off | on | off |
| DRQ: 6 | OFF | off | on | off |
| ACK: 7 | OFF | off | off | on |
| DRQ: 7 | OFF | off | off | on |

Television Board

PCTV Tuner (assembly 171096-001)

| Jumper Setting | I/O Address |
|----------------|-------------|
| Pins 1 & 2 | B18/B19 |
| Pins 2 & 3 | B28/B29 |