# ORCHID TECHNOLOGY
# TURBO PGA

| | |
|---|---|
| **Category** | Video |
| **Video Types Supported** | CGA |
| **Video Processor** | Unidentified |
| **Highest Resolution Supported** | 720 x 350 |
| **Data Bus Type** | 16-bit ISA |
| **Memory Type** | Unidentified |
| **Maximum Onboard Memory** | Unidentified |



| CONNECTIONS | |
|---|---|
| Purpose | Location |
| 15-pin analog video connector | CN1 |

| ON BOARD ROM SELECT | |
|---|---|
| Setting | W1 |
| On board ROM enabled | Open |
| On board ROM disabled | Closed |

| DUAL PORTED RAM SELECT | |
|---|---|
| Setting | W2 |
| Dual-ported RAM enabled | Pins 2 & 3 closed |
| Dual ported RAM disabled | Pins 1 & 2 closed |
| 8-bit RAM Transfers enabled | All open |
| Note: If the mother board clock is 6hz then enable the dual ported RAM.  If the clock is higher than 6hz and failure occurs disable the Dual ported RAM.  If you have other boards at address 0C000h or 0D000h then remove the W2 jumper this will force 8-bit transfers. | |
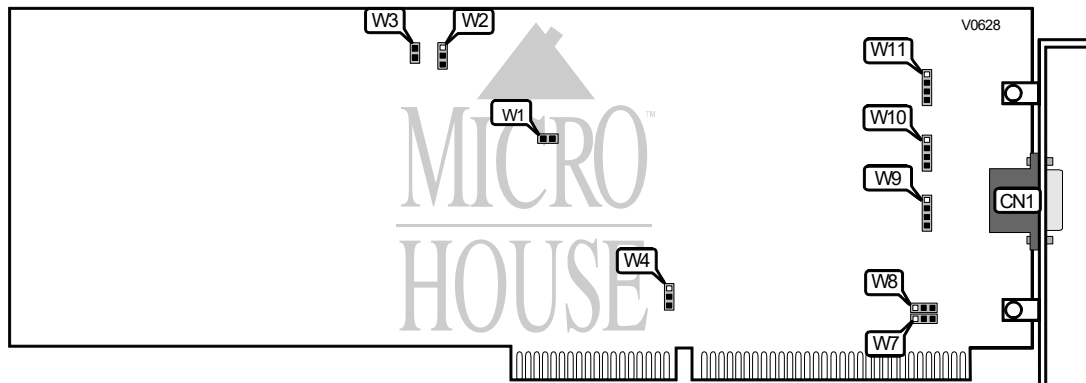
# ORCHID TECHNOLOGY
# TURBO PGA

| VIDEO SYNC SELECT | | |
|---|---|---|
| Setting | W7 | W8 |
| IBM CGA | Pins 1 & 2 closed | Pins 1 & 2 closed |
| IBM/Hercules monochome | Pins 1 & 2 closed | Pins 2 & 3 closed |
| Hsync positive | Pins 1 & 2 closed | N/A |
| Hsync negative | Pins 2 & 3 closed | N/A |
| Vsync positive | N/A | Pins 1 & 2 closed |
| Vsync negative | N/A | Pins 2 & 3 closed |
| Composite sync positive | Pins 1 & 2 closed | All open |
| Composite sync negative | Pins 2 & 3 closed | All open |

| SECONDARY VIDEO SELECT | | | |
|---|---|---|---|
| Setting | \ 9 | V 10 | V 11 |
| IBM CGA | Pins 3 & 4 closed | Pins 3 & 4 closed | Pins 3 & 4 closed |
| Monochrome | Pins 1 & 2, 3 & 4 closed | Pins 1 & 2, 3 & 4 closed | Pins 1 & 2, 3 & 4 closed |

| FACTORY CONFIGURED SETTINGS | |
|---|---|
| Jumper | Setting |
| W3 | Closed |
| W4 | Pins 2 & 3 closed |
| W5 | Closed (Soldered) |
| W6 | Closed (Soldered) |
| Note: The manufacturers documentation does not provide the locations of the jumpers W5 & W6.  They do warn that removing the solder will cause failure of the board. | |