



82B484

Video Support Chip

Features

- Allows a 1MB Windows Accelerator adapter to be implemented with 9 chips (including memory):
 - 1 82C481 Graphics Controller
 - 1 82B484 Video Support Chip
 - 2 74LS245 Bus Transceiver
 - 1 RAMDAC
 - 4 256Kx8 VRAMs (minimum)
- Reduces chip count for 82C481 based 8514/A-compatible display adapters
- Supports video rates to 80MHz
- Supports the 82C404 Clock Chip or up to four discrete oscillators
- Contains VGA Video pass-through circuitry
- Implements VESA-compatible video pass through logic
- High-speed Bi-CMOS process
- Pinouts optimized for PCB layout
- 80-pin Plastic Flat Package

Designed to work with the 82C481, the 82B484 Video Support Chip integrates all TTL components required for 8514/A-compatible display adapters. With the 82B484, a minimum system 1024x768 non-interlaced 8514/A-compatible display adapter can be implemented in 9 chips including VRAM memory. Included in the 82B484 is all clock selection circuitry, video shift registers, and VGA video pass through logic. The 82B484 CMOS circuitry allows 80 MHz clock frequencies supporting non-interlaced monitor resolutions up to 1024x768 and interlaced monitor resolutions up to 1280x1024.

Figure 2-3. 82B484 Block Diagram

