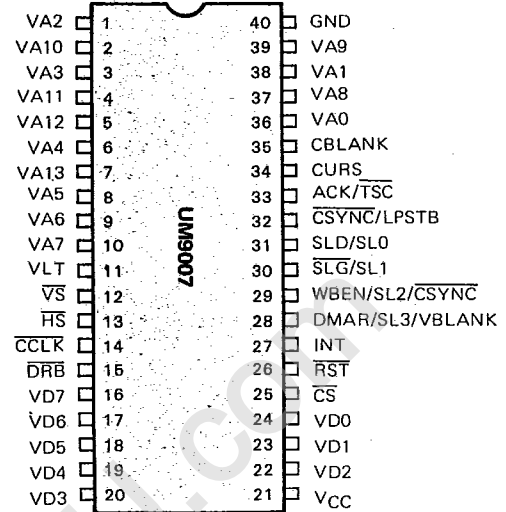


UM9007 CRT Controller

FEATURES

- Fully Programmable Display Format
- Programmable Monitor Sync Format
- Direct Outputs to CRT Monitor
- Binary, Row-Table Driven or Sequential Video Addressing Modes
- Programmable Status Row Position and Address Registers
- Bidirectional Partial or Full-Page Smooth Scroll
- Attribute Assemble Mode
- Double Height, Double Width Data Row Mode
- Programmable DMA Burst Mode
- Configurable with a Variety of Memory Contention Arrangements
- Light Pen Register
- Maskable Processor Interrupt Line
- Three-state Video Memory Address Bus
- Partial or Full Page Blank Capability
- Two Interlace Modes: Enhanced Video and Alternate Scan Line
- Programmable for Horizontal Split Screen Applications

PIN CONFIGURATION



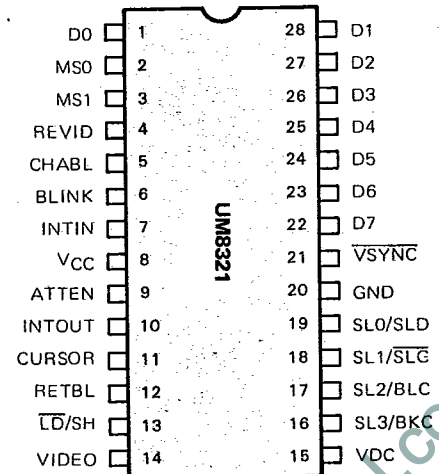
- Graphics Compatible
- VT-100 Compatible
- RS-170 Interlaced Composite Sync Available

UM8321 Video Attributes Controller

FEATURES

- On Chip Video Shift Register: Maximum Shift Register Frequency 30 MHz
- On Chip Attributes Logic: Reverse Video, Character Blank, Character Blink, Underline, Full/half Intensity
- Four Modes of Operation: Wide Graphics, Thin Graphics, Character Mode without Underline, Character Mode with Underline
- On Chip Logic for Double Height/Double Width Characters
- Accepts Scan Line Information in Parallel or Serial Format
- Four Cursor Modes Dynamically Selectable via 2 Input Pins: Underline, Blinking Underline, Reverse Video, Blinking Reverse Video
- Programmable Character Blink Rate
- Programmable Cursor Blink Rate
- On Chip Data and Attribute Latches
- Single +5V Supply

PIN CONFIGURATION



- TTL Compatible
- NMOS Silicon Gate Process
- Compatible with UM9007 CRT