

## 3M-Bit Frame Buffer

### Applications

Multimedia systems  
 Video capture systems  
 Video editing systems  
 Scan rate converters  
 TV's picture in picture feature  
 Anti-skip CD players

### Description

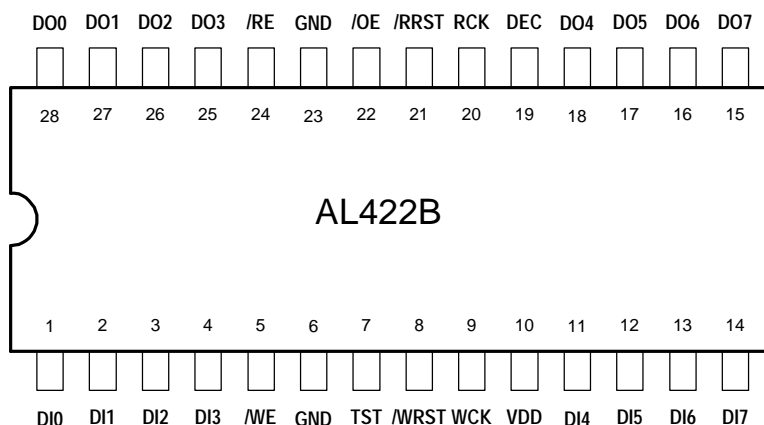
The AL422B is a First-In-First-Output (FIFO) video frame memory used to buffer audio/video/graphic data for digital processing, timing correction, or format conversion. It is manufactured with state-of-the-art embedded memory technology for applications in TVs, VCRs, scan converters, and digital video systems.

### Features

- 384K (393,216) x 8 bits FIFO organization
- Supports VGA and CCIR resolutions
- Independent read/write operations (different I/O data rates acceptable)
- High speed independent 8-bit data I/O port operations
- Maximum operating speed grade: 50Mhz
- Access time: 15 ns
- Output enable control (data skipping)
- 3.3V power supply with 5V signal input tolerant
- Standard 28-pin SOP package

### Ordering Information

Part number	Package	Power supply
AL422B	28-pin plastic SOP	+3.3 volt



AL422-04 422B pinout diagram

The AL422B consists of 3Mbits of memory, and is configured as 393,216 words x 8 bit FIFO (first in first out). The built-in address and pointer control circuits provide a straightforward bus interface to serially read/write memory that can reduce inter-chip design efforts. The 8-bit read/write ports can operate independently at a maximum speed of 50Mhz.

Current sources of similar memory (field memory) in the market provide limited memory size which is only enough for holding a TV field, but not enough for a whole PC video frame which normally contains 640x480 or 720x480 bytes. The AverLogic AL422 provides 50% more memory to support high resolution for digital PC graphic or video applications. The 50% increase in speed also expands the range of applications.

For more information about the AL422B or other AverLogic products, please contact your local authorized distributor, representative, visit our website, or contact us directly.

