

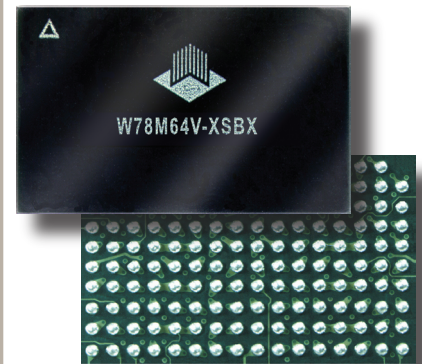
# 8M x 64 (64MB) Flash

## Optimum Density and Performance in One Package

### W78M64V-XSBX\* Features

The W78M64V-XSBX is member of WEDC's high density/high performance family of Flash MCPs.

Designed to complement high performance processors and memory controllers. (See page 2 for typical block diagram).



### Product Features

- 64MByte (512Mb) organized as 8M x 64
- Access Times of 70, 90, 100, 120ns
- Page Mode Access Time: 25ns
- Page Mode: 8 words fast page read access
- Simultaneous Read/Write operations
  - Data can be continuously read from one bank while executing erase/program functions in other bank
  - Zero latency between read and write operations
- Zero Power Operation
- 1,000,000 Erase/Program Cycles per sector
- Flexible Bank Architecture
  - Separate (4) banks provide up to two simultaneous operations per device.
- Boot Code Sector Architecture (Bottom or Top on same device)
- Single 3.3V for Read and Write Operations
- I/O voltage options of 1.8V and 3.3V
- Commercial and industrial temperature ranges

### Package

- 13 x 22mm, 159 Plastic Ball Grid Array (PBGA), 286mm<sup>2</sup>

\* Preliminary flyer describes a product in development, non-qualified or characterized and is subject to change without notice.

### Benefits

- 31% space savings
- Reduced part count
- 50% I/O reduction
- Suitable for high-reliability applications
- Upgrade density from W72M64V-XBX
- Upgradeable (contact factory for future availability)

For more information, visit our website at [www.whiteedc.com](http://www.whiteedc.com) or call (602) 437-1520 and ask for applications support.



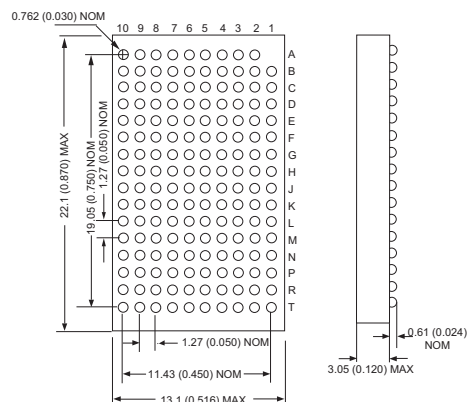
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## Density Comparison

	Monolithic Solution	Actual Size W78M64V-XSBX	S A V I N G S
Area	$103 \times 5\text{mm}^2 = 414\text{mm}^2$	$286\text{mm}^2$	31%
I/O Count	4 x 66 pins = 320 pins	159 Balls	50%

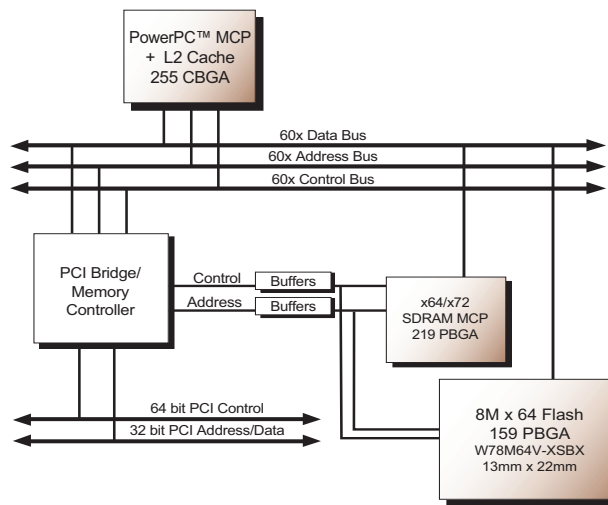
## Package Dimensions

BOTTOM VIEW



NOTE: Dimensions in millimeters (inches)

## Typical Block Diagram



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\*\* Suggested products available at [www.whiteedc.com](http://www.whiteedc.com)

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W82M64V-XSBX Flyer  
 MIF2044 Rev. 0 11/03