

1M x 36 Synchronous Pipeline Burst ZBT™ SRAM

Optimum Density and Performance in One Package

WED2ZL361MVxxBC**WED2ZL361MSxxBC**

The WED2ZL361MV and the WED2ZL361MS are members of WEDC's high density/high performance synchronous SRAM family designed in support of network processors, DSPs and high performance general processors.

The devices are organized as 1M x 36, include the zero bus turnaround feature as well as pipeline burst, and are packaged in a 17mm x 23mm, 119 BGA. The WED2ZL361MV and the WED2ZL361MS operate at 3.3V and 2.5V respectively.

Product Features

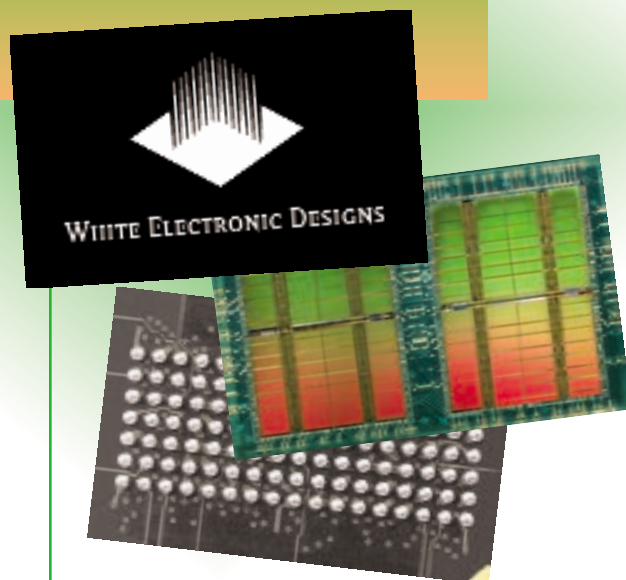
- Operating voltage: 3.3V, 2.5V
- Clock frequency: 100, 133, 150, and 166MHz
- Access times: 5.0, 4.2, 3.8, and 3.5ns
- Snooze mode for ultra low standby power
- Individual byte write control
- Clock controlled and registered address, control and I/O
- Burst mode (interleaved or linear)
- Low capacitance bus loading

Package

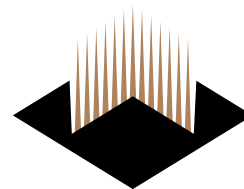
17mm x 23mm, 119 BGA, 1.27mm pitch

For more information, visit our website at www.whiteedc.com
or call (508) 366-5151 and ask for multi-chip product marketing.

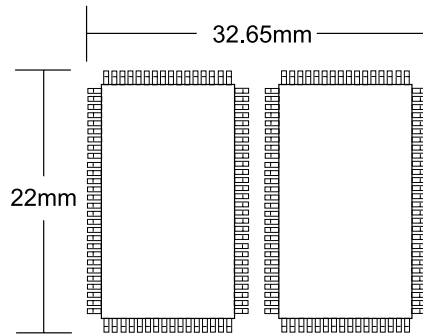
1. ZBT™ is a trademark of Integrated Device Technology.
2. This product is subject to change without notice.



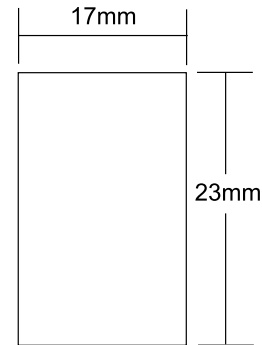
- 46% space savings
- Easier PCB layout and routing
 - reduced trace lengths
 - 50% fewer active signal connections on system board
- Improved system performance
 - reduced package inductance
 - reduced package capacitance
 - 50% reduction compared to two TQFP 100 packages
- Pick-and-place assembly

**WHITE ELECTRONIC DESIGNS**

Package Dimensions



Monolithic Solution: 718.3 sq.mm

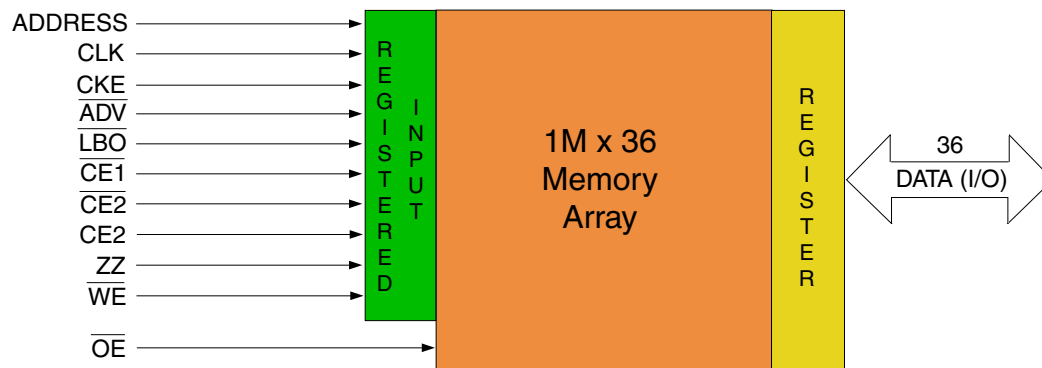


WEDC's Solution: 391 sq.mm

General Specifications

Speed Designator		35	38	42	50	
Frequency (MHz)		166	150	133	100	
Parameter	Symbol					Units
Operating Current	IDD	840	800	750	640	μA
Cycle Time	tKHKH	6	6.7	7.5	10	ns
Clock to Output Valid	tKHQV	3.5	3.8	4.2	5.0	ns
Setup Times	tS	1.5	1.5	1.5	1.5	ns
Hold Times	tH	0.5	0.5	0.5	0.5	ns

Block Diagram



WHITE ELECTRONIC DESIGNS

For ordering or information on any of our products and services, call White Electronic Designs at:

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WED2ZL361MV/MS Product Sheet
MCP2 Rev. 0 06/01