

Features

- Very high speed: 45 ns
- Wide voltage range: 2.20 V to 3.60 V
- Pin compatible with CY62136CV30
- Ultra low standby power
 - Typical standby current: 1 μ A
 - Maximum standby current: 7 μ A
- Ultra low active power
 - Typical active current: 2 mA at f = 1 MHz
- Easy memory expansion with $\overline{\text{CE}}$ and $\overline{\text{OE}}$ features
- Automatic power down when deselected
- Complementary metal oxide semiconductor (CMOS) for optimum speed/power
- Offered in a Pb-free 48-ball very fine ball grid array (VFBGA) and 44-pin thin small outline package (TSOP II) packages

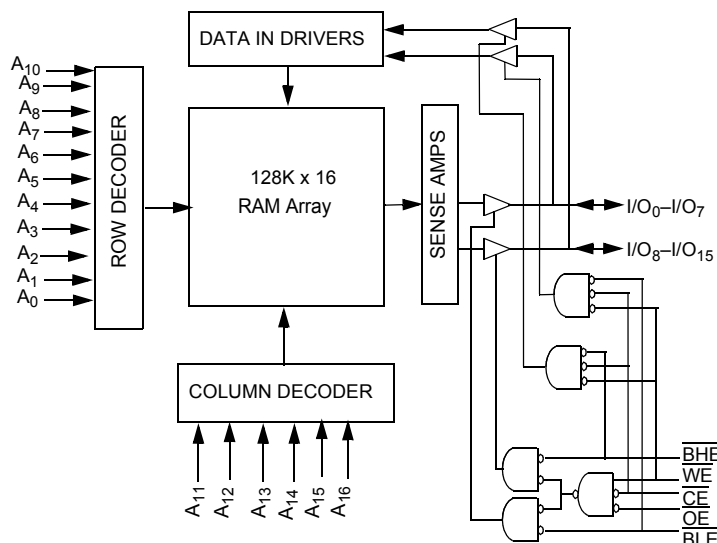
Functional Description

The CY62136EV30 is a high performance CMOS static RAM organized as 128K words by 16 bits. This device features advanced circuit design to provide ultra low active current. This is ideal for providing More Battery Life™ (MoBL®) in portable applications such as cellular telephones. The device also has an automatic power down feature that significantly reduces power consumption when addresses are not toggling. The device can also be put into standby mode reducing power consumption by more than 99% when deselected ($\overline{\text{CE}}$ HIGH). The input/output pins (I/O_0 through I/O_{15}) are placed in a high impedance state when: deselected ($\overline{\text{CE}}$ HIGH), outputs are disabled ($\overline{\text{OE}}$ HIGH), both Byte High Enable and Byte Low Enable are disabled ($\overline{\text{BHE}}$, $\overline{\text{BLE}}$ HIGH), or during a write operation ($\overline{\text{CE}}$ LOW and $\overline{\text{WE}}$ LOW).

Writing to the device is accomplished by taking Chip Enable ($\overline{\text{CE}}$) and Write Enable ($\overline{\text{WE}}$) inputs LOW. If Byte Low Enable ($\overline{\text{BLE}}$) is LOW, then data from I/O pins (I/O_0 through I/O_7), is written into the location specified on the address pins (A_0 through A_{16}). If Byte High Enable ($\overline{\text{BHE}}$) is LOW, then data from I/O pins (I/O_8 through I/O_{15}) is written into the location specified on the address pins (A_0 through A_{16}).

Reading from the device is accomplished by taking Chip Enable ($\overline{\text{CE}}$) and Output Enable ($\overline{\text{OE}}$) LOW while forcing the Write Enable ($\overline{\text{WE}}$) HIGH. If Byte Low Enable ($\overline{\text{BLE}}$) is LOW, then data from the memory location specified by the address pins appear on I/O_0 to I/O_7 . If Byte High Enable ($\overline{\text{BHE}}$) is LOW, then data from memory appear on I/O_8 to I/O_{15} . See the [Truth Table on page 11](#) for a complete description of read and write modes.

Logic Block Diagram



Contents

Pin Configuration	3	Truth Table	11
Product Portfolio	3	Ordering Information	12
Maximum Ratings	4	Ordering Code Definitions	12
Operating Range	4	Package Diagrams	13
Electrical Characteristics	4	Acronyms	14
Capacitance	5	Document Conventions	14
Thermal Resistance	5	Units of Measure	14
AC Test Loads and Waveforms	5	Document History Page	15
Data Retention Characteristics	6	Sales, Solutions, and Legal Information	16
Data Retention Waveform	6	Worldwide Sales and Design Support	16
Switching Characteristics	7	Products	16
Switching Waveforms	8	PSoC Solutions	16

Pin Configuration

Figure 1. 48-ball VFBGA (Top View) ^[1, 2]

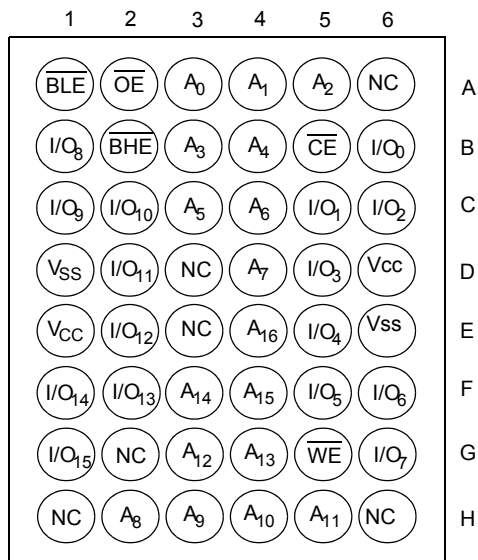
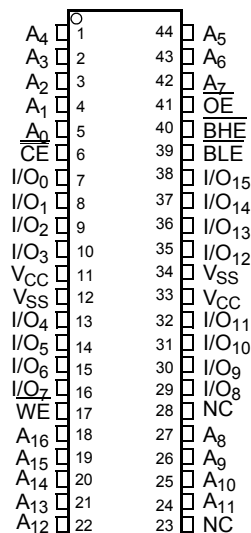


Figure 2. 44-pin TSOP II (Top View) ^[1]



Product Portfolio

Product ^[3]	V _{CC} Range (V)			Speed (ns)	Power Dissipation					
					Operating I _{CC} (mA)				Standby I _{SB2} (μA)	
					f = 1 MHz		f = f _{max}			
	Min	Typ ^[3]	Max		Typ ^[3]	Max	Typ ^[3]	Max	Typ ^[3]	Max
CY62136EV30LL	2.2	3.0	3.6	45	2	2.5	15	20	1	7

Notes

1. NC pins are not connected on the die.
2. Pins D3, H1, G2, H6 and H3 in the VFBGA package are address expansion pins for 4 Mb, 8 Mb, 16 Mb, and 32 Mb and 64 Mb respectively.
3. Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at V_{CC} = V_{CC(typ)}, T_A = 25 °C.

Maximum Ratings

Exceeding the maximum ratings may impair the useful life of the device. These user guidelines are not tested.

Storage temperature -65 °C to + 150 °C

Ambient temperature with power applied -55 °C to + 125 °C

Supply voltage to ground potential -0.3 V to 3.9 V ($V_{CC\ MAX} + 0.3\ V$)

DC voltage applied to outputs in High Z state ^[4, 5] -0.3 V to 3.9 V ($V_{CC\ MAX} + 0.3\ V$)

DC input voltage ^[4, 5] -0.3 V to 3.9 V ($V_{CC\ MAX} + 0.3\ V$)

Output current into outputs (LOW) 20 mA

Static discharge voltage > 2001 V (per MIL-STD-883, Method 3015)

Latch up current > 200 mA

Operating Range

Device	Range	Ambient Temperature	V_{CC} ^[6]
CY62136EV30LL	Industrial	-40 °C to +85 °C	2.2 V - 3.6 V

Electrical Characteristics

Over the Operating Range

Parameter	Description	Test Conditions	45 ns			Unit
			Min	Typ ^[7]	Max	
V_{OH}	Output HIGH voltage	$I_{OH} = -0.1\ mA$, $V_{CC} = 2.20\ V$	2.0	—	—	V
		$I_{OH} = -1.0\ mA$, $V_{CC} = 2.70\ V$	2.4	—	—	V
V_{OL}	Output LOW voltage	$I_{OL} = 0.1\ mA$, $V_{CC} = 2.20\ V$	—	—	0.4	V
		$I_{OL} = 2.1\ mA$, $V_{CC} = 2.70\ V$	—	—	0.4	V
V_{IH}	Input HIGH voltage	$V_{CC} = 2.2\ V$ to $2.7\ V$	1.8	—	$V_{CC} + 0.3$	V
		$V_{CC} = 2.7\ V$ to $3.6\ V$	2.2	—	$V_{CC} + 0.3$	V
V_{IL}	Input LOW voltage	$V_{CC} = 2.2\ V$ to $2.7\ V$	-0.3	—	0.6	V
		$V_{CC} = 2.7\ V$ to $3.6\ V$	-0.3	—	0.8	V
I_{IX}	Input leakage current	$GND \leq V_I \leq V_{CC}$	-1	—	+1	μA
I_{OZ}	Output leakage current	$GND \leq V_O \leq V_{CC}$, output disabled	-1	—	+1	μA
I_{CC}	V_{CC} operating supply current	$f = f_{max} = 1/t_{RC}$, $V_{CC} = V_{CCmax}$, $I_{OUT} = 0\ mA$	—	15	20	mA
		$f = 1\ MHz$, CMOS levels	—	2	2.5	
I_{SB1} ^[8]	Automatic CE power-down current — CMOS inputs	$\overline{CE} \geq V_{CC} - 0.2\ V$, $V_{IN} \geq V_{CC} - 0.2\ V$, $V_{IN} \leq 0.2\ V$, $f = f_{max}$ (address and data only), $f = 0$ (OE, and WE), $V_{CC} = 3.60\ V$	—	1	7	μA
I_{SB2} ^[8]	Automatic CE power-down current — CMOS inputs	$\overline{CE} \geq V_{CC} - 0.2\ V$, $V_{IN} \geq V_{CC} - 0.2\ V$ or $V_{IN} \leq 0.2\ V$, $f = 0$, $V_{CC} = 3.60\ V$	—	1	7	μA

Notes

- $V_{IL(min.)} = -2.0\ V$ for pulse durations less than 20 ns.
- $V_{IH(max.)} = V_{CC} + 0.75\ V$ for pulse durations less than 20 ns.
- Full Device AC operation assumes a 100 μs ramp time from 0 to $V_{CC(min)}$ and 200 μs wait time after V_{CC} stabilization.
- Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at $V_{CC} = V_{CC(typ.)}$, $T_A = 25\ ^\circ C$.
- Chip enable ($\overline{CE}$) and byte enables ($\overline{BHE}$ and $\overline{BLE}$) need to be tied to CMOS levels to meet the I_{SB1} / I_{SB2} / I_{CCDR} specification. Other inputs can be left floating.

Capacitance

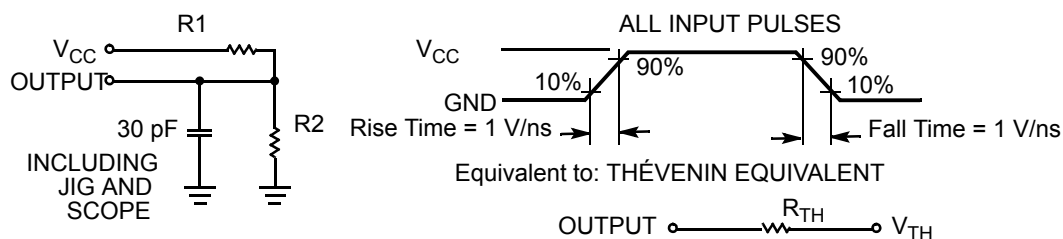
Parameter ^[9]	Description	Test Conditions	Max	Unit
C _{IN}	Input capacitance	T _A = 25 °C, f = 1 MHz, V _{CC} = V _{CC(typ)}	10	pF
C _{OUT}	Output capacitance		10	pF

Thermal Resistance

Parameter ^[9]	Description	Test Conditions	48-ball VFBGA Package	44-pin TSOP II Package	Unit
Θ _{JA}	Thermal resistance (junction to ambient)	Still air, soldered on a 3 × 4.5 inch, two-layer printed circuit board	75	77	°C/W
Θ _{JC}	Thermal resistance (junction to case)		10	13	°C/W

AC Test Loads and Waveforms

Figure 3. AC Test Loads and Waveforms



Parameters	2.50 V	3.0 V	Unit
R1	16667	1103	Ω
R2	15385	1554	Ω
R _{TH}	8000	645	Ω
V _{TH}	1.20	1.75	V

Note

9. Tested initially and after any design or process changes that may affect these parameters.

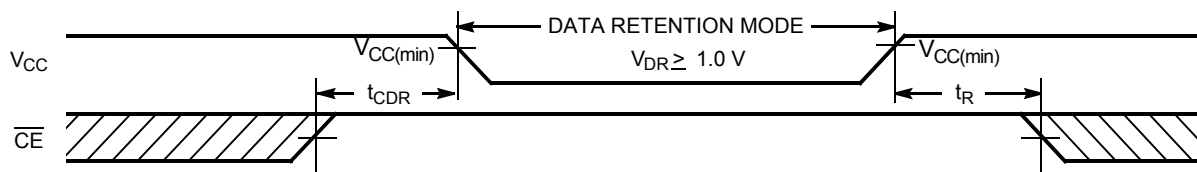
Data Retention Characteristics

Over the Operating Range

Parameter	Description	Conditions	Min	Typ ^[10]	Max	Unit
V_{DR}	V_{CC} for data retention		1.0	–	–	V
$I_{CCDR}^{[11]}$	Data retention current	$V_{CC} = 1.0\text{ V}$, $\overline{CE} \geq V_{CC} - 0.2\text{ V}$, $V_{IN} \geq V_{CC} - 0.2\text{ V}$ or $V_{IN} \leq 0.2\text{ V}$	–	0.8	3	μA
$t_{CDR}^{[12]}$	Chip deselect to data retention time		0	–	–	ns
$t_R^{[13]}$	Operation recovery time		45	–	–	ns

Data Retention Waveform

Figure 4. Data Retention Waveform^[14]



Notes

10. Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at $V_{CC} = V_{CC(typ.)}$, $T_A = 25\text{ }^\circ\text{C}$.
11. Chip enable ($\overline{CE}$) and byte enables ($\overline{BHE}$ and $\overline{BLE}$) need to be tied to CMOS levels to meet the I_{SB1} / I_{SB2} / I_{CCDR} specification. Other inputs can be left floating.
12. Tested initially and after any design or process changes that may affect these parameters.
13. Full device operation requires linear V_{CC} ramp from V_{DR} to $V_{CC(min.)} \geq 100\text{ }\mu\text{s}$ or stable at $V_{CC(min.)} \geq 100\text{ }\mu\text{s}$.
14. $\overline{BHE}.\overline{BLE}$ is the AND of both $\overline{BHE}$ and $\overline{BLE}$. The chip can be deselected by either disabling the chip enable signals or by disabling both $\overline{BHE}$ and $\overline{BLE}$.

Switching Characteristics

Over the Operating Range

Parameter ^[15, 16]	Description	45 ns		Unit
		Min	Max	
Read Cycle				
t _{RC}	Read cycle time	45	–	ns
t _{AA}	Address to data valid	–	45	ns
t _{OHA}	Data hold from address change	10	–	ns
t _{ACE}	$\overline{CE}$ LOW to data valid	–	45	ns
t _{DOE}	$\overline{OE}$ LOW to data valid	–	22	ns
t _{LZOE}	$\overline{OE}$ LOW to Low Z ^[17]	5	–	ns
t _{HZOE}	$\overline{OE}$ HIGH to High Z ^[17, 18]	–	18	ns
t _{LZCE}	$\overline{CE}$ LOW to Low Z ^[17]	10	–	ns
t _{HZCE}	$\overline{CE}$ HIGH to High Z ^[17, 18]	–	18	ns
t _{PU}	$\overline{CE}$ LOW to power-up	0	–	ns
t _{PD}	$\overline{CE}$ HIGH to power-down	–	45	ns
t _{DBE}	$\overline{BLE/BHE}$ LOW to data valid	–	22	ns
t _{LZBE}	$\overline{BLE/BHE}$ LOW to Low Z ^[17]	5	–	ns
t _{HZBE}	$\overline{BLE/BHE}$ HIGH to High Z ^[17, 18]	–	18	ns
Write Cycle ^[19]				
t _{WC}	Write cycle time	45	–	ns
t _{SCE}	$\overline{CE}$ LOW to write end	35	–	ns
t _{AW}	Address setup to write end	35	–	ns
t _{HA}	Address hold from write end	0	–	ns
t _{SA}	Address setup to write start	0	–	ns
t _{PWE}	$\overline{WE}$ pulse width	35	–	ns
t _{BW}	$\overline{BLE/BHE}$ LOW to write end	35	–	ns
t _{SD}	Data setup to write end	25	–	ns
t _{HD}	Data hold from write end	0	–	ns
t _{HZWE}	$\overline{WE}$ LOW to High Z ^[17, 18]	–	18	ns
t _{LZWE}	$\overline{WE}$ HIGH to Low Z ^[17]	10	–	ns

Notes

15. Test conditions for all parameters other than tri-state parameters assume signal transition time of 3 ns (1 V/ns) or less, timing reference levels of $V_{CC(typ)}/2$, input pulse levels of 0 to $V_{CC(typ)}$, and output loading of the specified I_{OL}/I_{OH} as shown in [Figure 3 on page 5](#).
16. AC timing parameters are subject to byte enable signals (BHE or BLE) not switching when chip is disabled. Refer application note [AN13842](#) for more information.
17. At any given temperature and voltage condition, t_{HZCE} is less than t_{LZCE} , t_{HZBE} is less than t_{LZBE} , t_{HZOE} is less than t_{LZOE} , and t_{HZWE} is less than t_{LZWE} for any given device.
18. t_{HZOE} , t_{HZCE} , t_{HZBE} , and t_{HZWE} transitions are measured when the outputs enter a high impedance state.
19. The internal write time of the memory is defined by the overlap of $\overline{WE}$, $\overline{CE} = V_{IL}$, $\overline{BHE}$ and $\overline{BLE} = V_{IL}$. All signals must be ACTIVE to initiate a write and any of these signals can terminate a write by going INACTIVE. The data input setup and hold timing should be referenced to the edge of the signal that terminates the write.

Switching Waveforms

Figure 5. Read Cycle 1: Address Transition Controlled [20, 21]

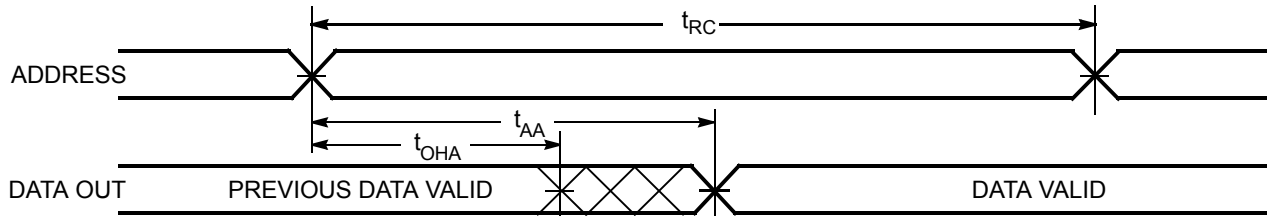
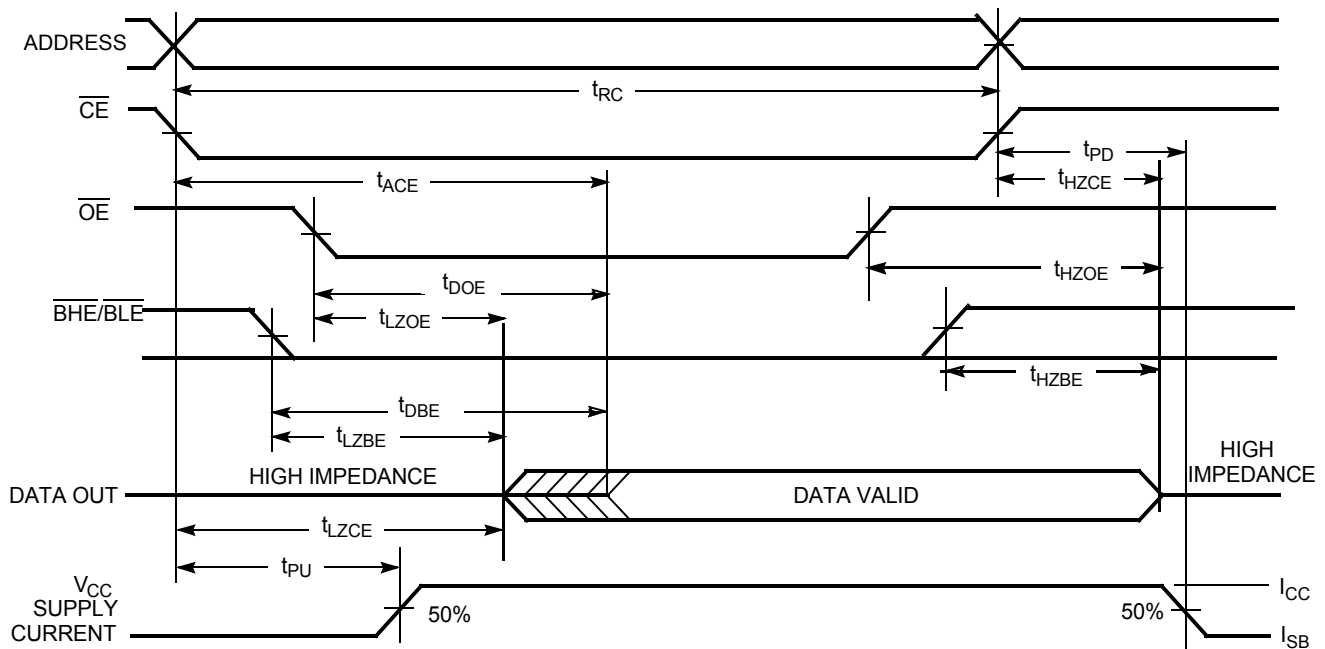
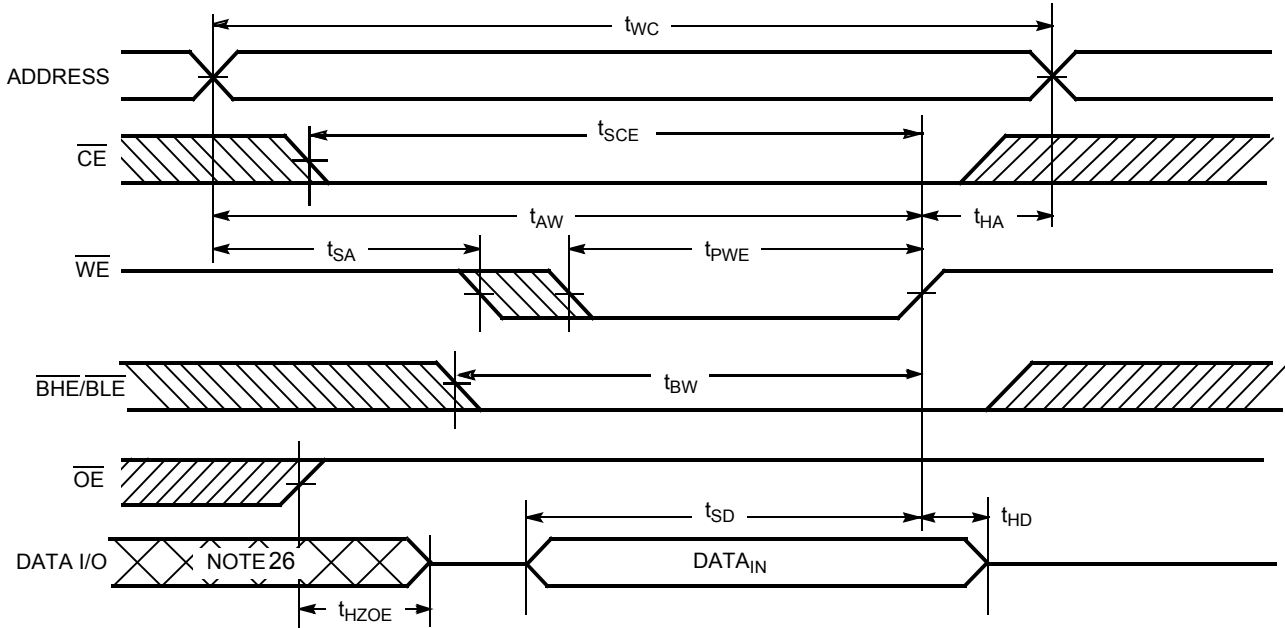
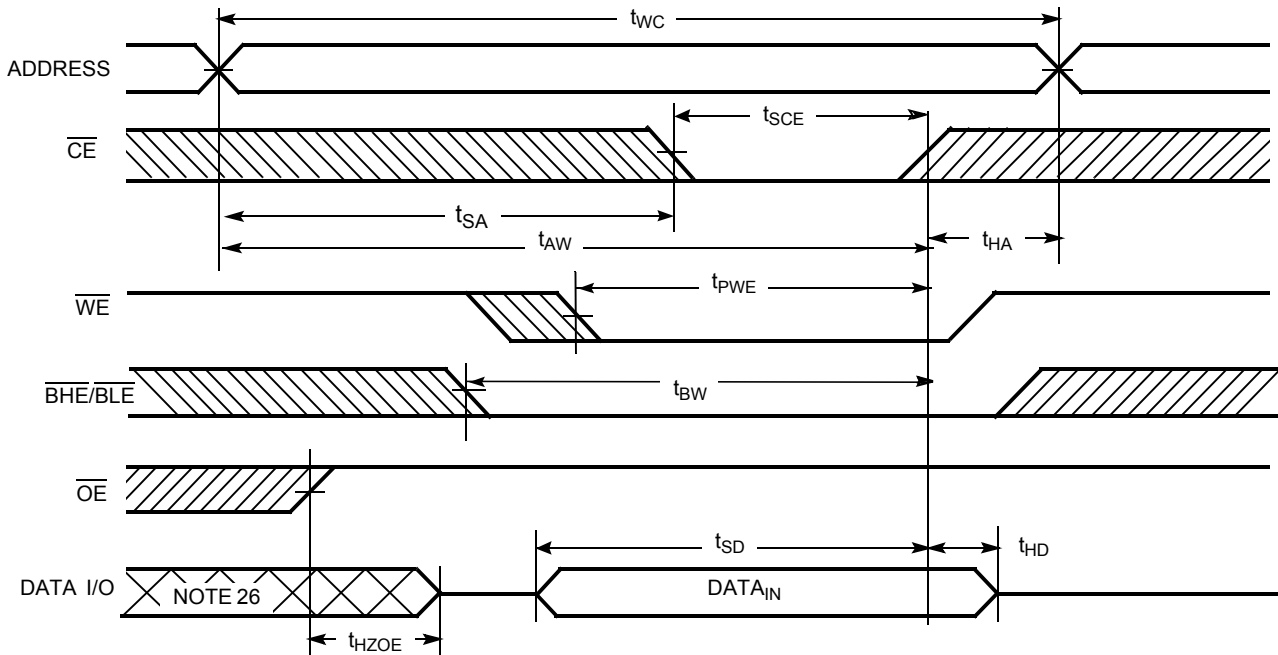


Figure 6. Read Cycle No. 2: $\overline{OE}$ Controlled [21, 22]



Notes

20. The device is continuously selected. $\overline{OE}$, $\overline{CE} = V_{IL}$, $\overline{BHE}$ and/or $\overline{BLE} = V_{IL}$.
 21. $\overline{WE}$ is HIGH for read cycle.
 22. Address valid prior to or coincident with $\overline{CE}$ and $\overline{BHE}$, $\overline{BLE}$ transition LOW.

Switching Waveforms (continued)
Figure 7. Write Cycle No. 1: $\overline{WE}$ Controlled [23, 24, 25]

Figure 8. Write Cycle No. 2: $\overline{CE}$ Controlled [23, 24, 25]

Notes

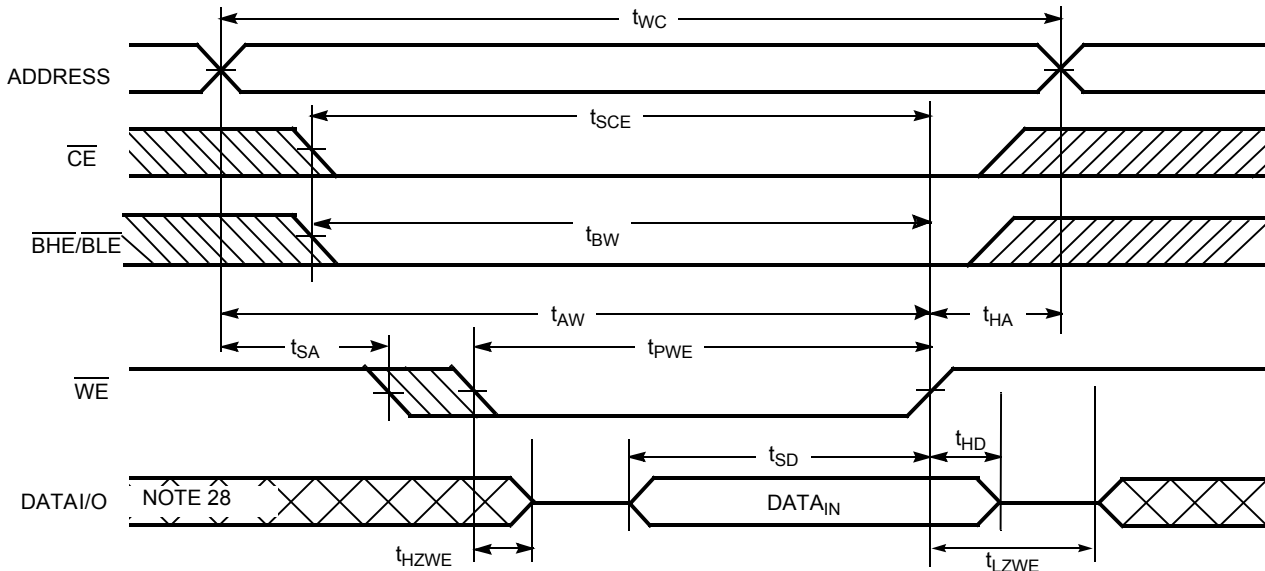
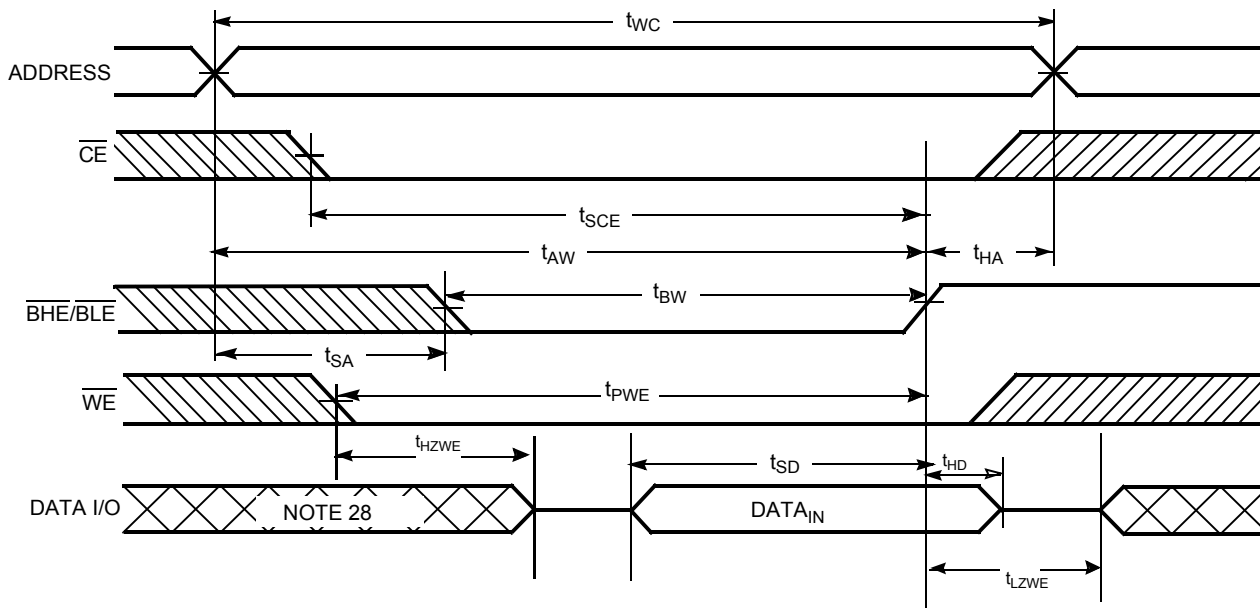
23. The internal write time of the memory is defined by the overlap of $\overline{WE}$, $\overline{CE} = V_{IL}$, $\overline{BHE}$ and $\overline{BLE} = V_{IL}$. All signals must be ACTIVE to initiate a write and any of these signals can terminate a write by going INACTIVE. The data input setup and hold timing should be referenced to the edge of the signal that terminates the write.

24. Data I/O is high impedance if $\overline{OE} = V_{IH}$.

25. If $\overline{CE}$ goes HIGH simultaneously with $\overline{WE} = V_{IH}$, the output remains in a high impedance state.

26. During this period, the I/Os are in output state and input signals should not be applied.

Switching Waveforms (continued)

Figure 9. Write Cycle No. 3: $\overline{\text{WE}}$ Controlled, $\overline{\text{OE}}$ LOW [27]

Figure 10. Write Cycle No. 4: $\overline{\text{BHE/BLE}}$ Controlled, $\overline{\text{OE}}$ LOW [27]

Notes

27. If $\overline{\text{CE}}$ goes HIGH simultaneously with $\overline{\text{WE}} = V_{IH}$, the output remains in a high impedance state.
 28. During this period, the I/Os are in output state and input signals should not be applied.

Truth Table

$\overline{\text{CE}}$	$\overline{\text{WE}}$	$\overline{\text{OE}}$	$\overline{\text{BHE}}$	$\overline{\text{BLE}}$	Inputs/Outputs	Mode	Power
H ^[29]	X	X	X ^[29]	X ^[29]	High Z	Deselect/power-down	Standby (I_{SB})
L	X	X	H	H	High Z	Output disabled	Active (I_{CC})
L	H	L	L	L	Data out (I/O_0 – I/O_{15})	Read	Active (I_{CC})
L	H	L	H	L	Data out (I/O_0 – I/O_7); I/O_8 – I/O_{15} in High Z	Read	Active (I_{CC})
L	H	L	L	H	Data Out (I/O_8 – I/O_{15}); I/O_0 – I/O_7 in High Z	Read	Active (I_{CC})
L	H	H	L	L	High Z	Output disabled	Active (I_{CC})
L	H	H	H	L	High Z	Output disabled	Active (I_{CC})
L	H	H	L	H	High Z	Output disabled	Active (I_{CC})
L	L	X	L	L	Data in (I/O_0 – I/O_{15})	Write	Active (I_{CC})
L	L	X	H	L	Data in (I/O_0 – I/O_7); I/O_8 – I/O_{15} in High Z	Write	Active (I_{CC})
L	L	X	L	H	Data in (I/O_8 – I/O_{15}); I/O_0 – I/O_7 in High Z	Write	Active (I_{CC})

Note

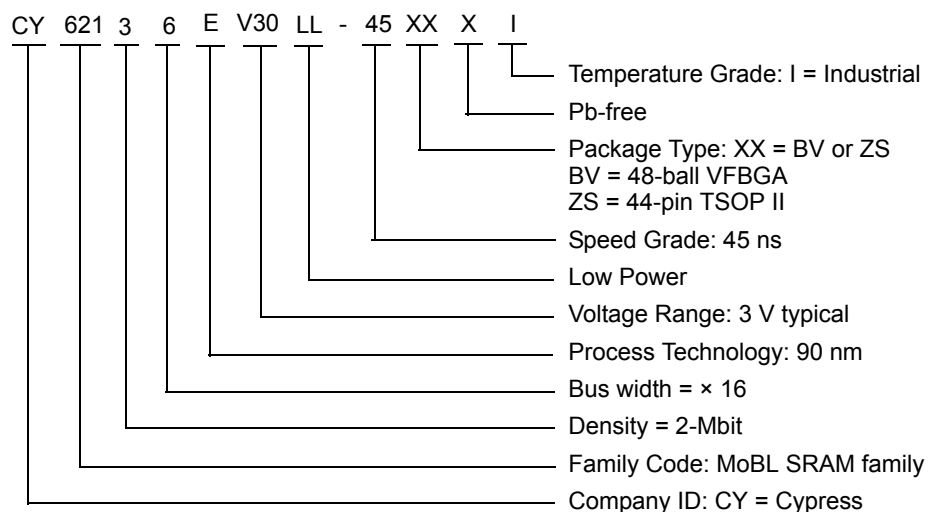
29. Chip enable ($\overline{\text{CE}}$) and Byte enables ($\overline{\text{BHE}}$ and $\overline{\text{BLE}}$) must be at fixed CMOS levels (not floating). Intermediate voltage levels on these pins is not permitted.

Ordering Information

Speed (ns)	Ordering Code	Package Diagram	Package Type	Operating Range
45	CY62136EV30LL-45BVXI	51-85150	48-ball Very Fine-Pitch Ball Grid Array (Pb-free)	Industrial
	CY62136EV30LL-45ZSXI	51-85087	44-pin Thin Small Outline Package II (Pb-free)	

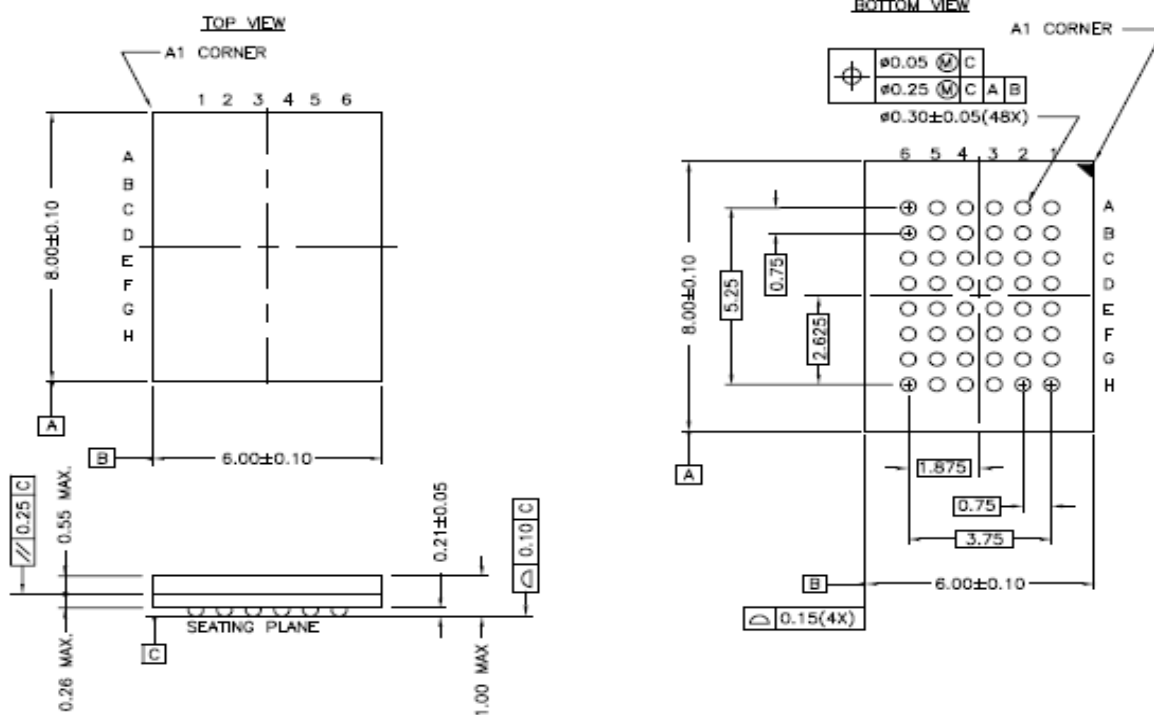
Contact your local Cypress sales representative for availability of other parts

Ordering Code Definitions



Package Diagrams

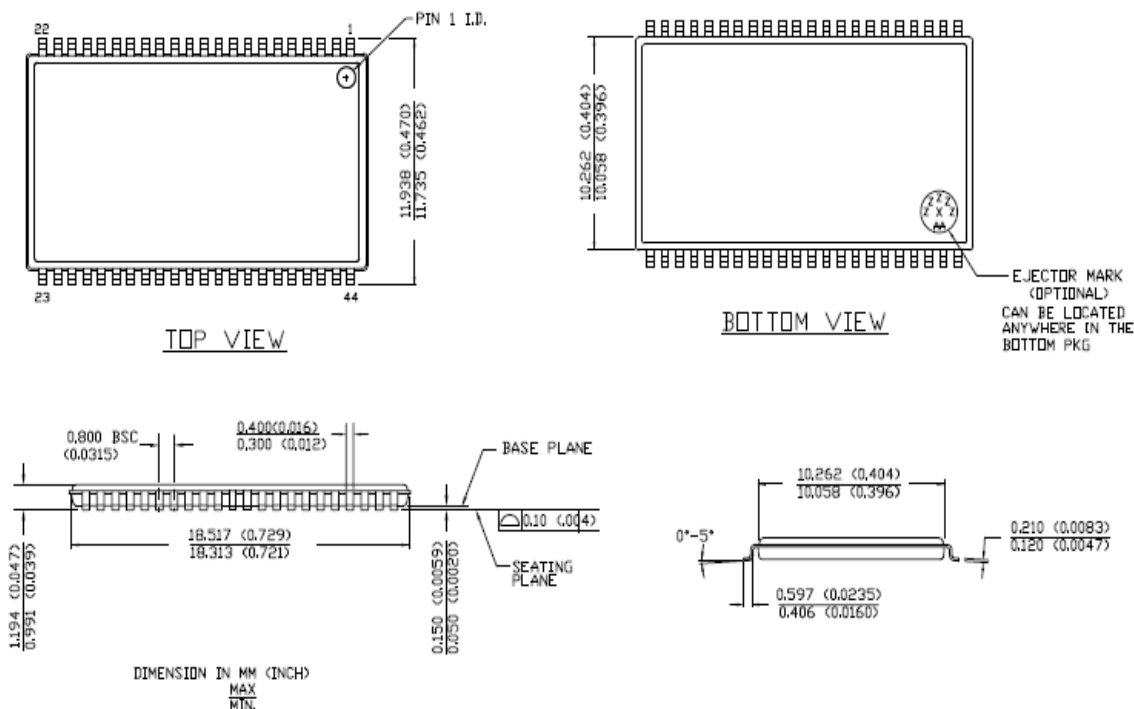
Figure 11. 48-ball VFBGA (6 × 8 × 1 mm) BV48/BZ48, 51-85150



51-85150 *F

Package Diagrams (continued)

Figure 12. 44-pin TSOP Z44-II, 51-85087



51-85087 °C

Acronyms

Acronym	Description
BLE	byte low enable
BHE	byte high enable
CE	chip enable
CMOS	complementary metal oxide semiconductor
I/O	input/output
OE	output enable
SRAM	static random access memory
TSOP	thin small outline package
VFBGA	very fine-pitch ball grid array
WE	write enable

Document Conventions

Units of Measure

Symbol	Unit of Measure
°C	degree Celsius
MHz	Mega Hertz
μA	micro Amperes
μs	micro seconds
mA	milli Amperes
mm	milli meter
ns	nano seconds
Ω	ohms
%	percent
pF	pico Farads
V	Volts
W	Watts

Document History Page

Document Title: CY62136EV30 MoBL®, 2-Mbit (128 K × 16) Static RAM Document Number: 38-05569				
Rev.	ECN No.	Orig. of Change	Submission Date	Description of Change
**	237432	AJU	See ECN	New Data Sheet
*A	419988	R XU	See ECN	Converted from Advanced Information to Final. Changed the address of Cypress Semiconductor Corporation on Page #1 from "3901 North First Street" to "198 Champion Court" Removed 35ns Speed Bin Removed "L" version of CY62136EV30 Changed I _{CC} (Max) value from 2 mA to 2.5 mA and I _{CC} (Typ) value from 1.5 mA to 2 mA at f=1 MHz Changed I _{CC} (Typ) value from 12 mA to 15 mA at f = f _{max} Changed I _{SB1} and I _{SB2} Typ. values from 0.7 μA to 1 μA and Max. values from 2.5 μA to 7 μA. Changed the AC test load capacitance from 50pF to 30pF on Page# 4 Changed V _{DR} from 1.5V to 1V on Page# 4. Changed I _{CCDR} from 2.5 μA to 3 μA. Added I _{CCDR} typical value. Changed t _{OHA} , t _{LZCE} and t _{LZWE} from 6 ns to 10 ns Changed t _{LZBE} from 6 ns to 5 ns Changed t _{LZOE} from 3 ns to 5 ns Changed t _{HZOE} , t _{HZCE} , t _{HZBE} and t _{HZWE} from 15 ns to 18 ns Changed t _{SCE} , t _{AW} and t _{BW} from 40 ns to 35 ns Changed t _{PWE} from 30 ns to 35 ns Changed t _{SD} from 20 ns to 25 ns Corrected typo in the Truth Table on Page# 9 Updated the package diagram 48-pin VFBGA from *B to *D Updated the ordering Information table and replaced the Package Name column with Package Diagram.
*B	427817	NXR	See ECN	Minor change: Moved datasheet to external web
*C	2604685	VKN/PYRS	11/12/08	Added footnote 8 related to I _{SB2} and I _{CCDR} Added footnote 12 related to AC timing parameters
*D	3144174	RAME	01/17/2011	Added Acronyms and Units of Measure . Added Ordering Code Definitions . Update Package Diagrams 51-85150 from *D to *F Converted all tablenotes into footnotes. Added TOC Updated datasheet as per new template.
*E	3284728	AJU	06/16/2011	Removed the Note "For best practice recommendations, refer to the Cypress application note "SRAM System Design Guidelines" on http://www.cypress.com ." in page 1 and its reference in Functional Description . Updated in new template.

Sales, Solutions, and Legal Information

Worldwide Sales and Design Support

Cypress maintains a worldwide network of offices, solution centers, manufacturer's representatives, and distributors. To find the office closest to you, visit us at cypress.com/sales.

Products

Automotive	cypress.com/go/automotive
Clocks & Buffers	cypress.com/go/clocks
Interface	cypress.com/go/interface
Lighting & Power Control	cypress.com/go/powerpsoc cypress.com/go/plc
Memory	cypress.com/go/memory
Optical & Image Sensing	cypress.com/go/image
PSoC	cypress.com/go/psoc
Touch Sensing	cypress.com/go/touch
USB Controllers	cypress.com/go/USB
Wireless/RF	cypress.com/go/wireless

PSoC Solutions

psoc.cypress.com/solutions

PSoC 1 | PSoC 3 | PSoC 5

© Cypress Semiconductor Corporation, 2004-2011. The information contained herein is subject to change without notice. Cypress Semiconductor Corporation assumes no responsibility for the use of any circuitry other than circuitry embodied in a Cypress product. Nor does it convey or imply any license under patent or other rights. Cypress products are not warranted nor intended to be used for medical, life support, life saving, critical control or safety applications, unless pursuant to an express written agreement with Cypress. Furthermore, Cypress does not authorize its products for use as critical components in life-support systems where a malfunction or failure may reasonably be expected to result in significant injury to the user. The inclusion of Cypress products in life-support systems application implies that the manufacturer assumes all risk of such use and in doing so indemnifies Cypress against all charges.

Any Source Code (software and/or firmware) is owned by Cypress Semiconductor Corporation (Cypress) and is protected by and subject to worldwide patent protection (United States and foreign), United States copyright laws and international treaty provisions. Cypress hereby grants to licensee a personal, non-exclusive, non-transferable license to copy, use, modify, create derivative works of, and compile the Cypress Source Code and derivative works for the sole purpose of creating custom software and or firmware in support of licensee product to be used only in conjunction with a Cypress integrated circuit as specified in the applicable agreement. Any reproduction, modification, translation, compilation, or representation of this Source Code except as specified above is prohibited without the express written permission of Cypress.

Disclaimer: CYPRESS MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Cypress reserves the right to make changes without further notice to the materials described herein. Cypress does not assume any liability arising out of the application or use of any product or circuit described herein. Cypress does not authorize its products for use as critical components in life-support systems where a malfunction or failure may reasonably be expected to result in significant injury to the user. The inclusion of Cypress' product in a life-support systems application implies that the manufacturer assumes all risk of such use and in doing so indemnifies Cypress against all charges.

Use may be limited by and subject to the applicable Cypress software license agreement.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.