



Military Product Selector Guide

Static RAMs

Size	Organization	Pins (DIP)	Part Number	SMD Number	Speed (ns)	I _{CC} /I _{SB} /I _{CCDR} (mA @ ns)	Availability
16K	2K x 8—CS Power-Down	24S	CY7C128A	5962-38294	t _{AA} = 35, 45, 55	125/40 @ 25	Now
16K	2K x 8—CS Power-Down	24	CY6116A		t _{AA} = 35, 55	125 @ 20	Now
64K	8K x 8—CS Power-Down	28S	CY7C185A		t _{AA} = 20, 25, 35, 45	125 @ 20	Now
256K	32K x 8—CS Power-Down	28	CY7C198	5962-88662	t _{AA} = 25	180/40 @ 20	Now
256K	32K x 8—CS Power-Down	28S	CY7C199		t _{AA} = 15, 20, 25	180/40 @ 20	Now
1M	128K x 8—CS Power-Down	32S	CY7C109		t _{AA} = 15, 20, 25, 35, 45	140/25 @ 20	Now

PROMs

Size	Organization	Pins	Part Number	SMD Number ^[1]	Speed (ns)	I _{CC} /I _{SB} (mA @ ns)	Availability
4K	512 x 8—Registered	24S	CY7C225A	5962-88518(O)	t _{SA/CO} = 25/12, 30/15, 35/20, 40/25	120	Now
8K	1K x 8—Registered	24S	CY7C235A	5962-88636(O)	t _{SA/CO} = 30/15, 40/20	120	Now
16K	2K x 8	24S	CY7C291	5962-87650(W)	t _{AA} = 25, 35, 50	120 @ 35	Now
16K	2K x 8	24S	CY7C291A	5962-88734(O)	t _{AA} = 25, 35, 45	120 @ 25	Now
16K	2K x 8—Registered	24S	CY7C245A	5962-88735(O)	t _{SA/CO} = 25/12, 35/15,	120 @ 25/12	Now
64K	8K x 8	24S	CY7C263/4	5962-87515(W)	t _{AA} = 25, 35, 45, 55	140 @ 25	Now
64K	8K x 8	24	CY7C263/4	5962-90803(O)	t _{AA} = 25, 35, 45, 55	120 @ 35	Now
64K	8K x 8—CS Power-Down	24S	CY7C261	5962-87515(W)	t _{AA} = 25, 35, 45, 55	140/50 @ 25	Now
64K	8K x 8—CS Power-Down	24S	CY7C261	5962-90803(O)	t _{AA} = 25, 35, 45,	120/30 @ 35	Now
64K	8K x 8—Registered	28S	CY7C265		t _{SA/CO} = 18/12, 50/25	140 @ 18/12	Now
256K	32K x 8—CS Power-Down	28S	CY7C271	5962-89817(W)	t _{AA} = 35, 45, 55	130/40 @ 35	Now
256K	32K x 8—Registered	28S	CY7C277	5962-91744(W)	t _{SA/CO} = 40/20, 50/25	130 @ 40	Now

PLDs

	Organization	Pins	Part Number	SMD Number ^[1]	Speed (ns/MHz)	I _{CC} (mA @ ns/MHz)	Availability
PALCE20	16V8—Macrocell	20S	PALCE16V8	5962-89839	t _{PD} /S/CO = 10/10/7	130 @ 10	Now
PLDC24	22V10—Macrocell	24S	PALC22V10	5962-87539(W)	t _{PD} /S/CO = 25/18/15	100 @ 25	Now
PLD24	22V10—Macrocell	24S	PALC22V10B	5962-87539(W)	t _{PD} /S/CO = 20/17/15	100 @ 20	Now
PLDC24	22V10—Macrocell	24S	PALC22V10	5962-88670(O)	t _{PD} /S/CO = 25/18/15	100 @ 25	Now
PLD24	22V10—Macrocell	24S	PALC22V10B	5962-88670(O)	t _{PD} /S/CO = 15/12/10	120 @ 15	Now
PLDC24	22V10D—Macrocell	24S	PALC22V10D	5962-89841(O)	t _{PD} /S/CO=10/6/7	130@10	Now
PLDC24	22V10D—Macrocell	24S	PALCE22V10	5962-89841(O)	t _{PD} /S/CO=10/6/7	130@10	Now
PLDC24	20G10—Generic	24S	PLDC20G10	5962-88637(O)	t _{PD} /S/CO = 30/17/15	80 @ 30	Now
PLDC24	20RA10—Asynchronous	24S	PLD20RA10	5962-90555(O)	t _{PD} /SU/CO = 20/10/20	100 @ 25	Now
PLDC24	20RA10—Asynchronous	24S	PLD20RA10	5962-90989(W)	t _{PD} /SU/CO=20/10/20	100@25	Now
MAX28	7C344—32 Macrocell	28S	CY7C344	5962-90611(W)	t _{PD} = 25	220@25	Now
MAX40	7C343—64 Macrocell	40/44	CY7C343	5962-92158(W)	t _{PD} = 30	225@25	Now
MAX68	7C342—128 Macrocell	68	CY7C342B	5962-89468(W)	t _{PD} = 15, 25, 30, 35	320@30	Now
MAX84	7C341—192 Macrocell	84	CY7C341	5962-92062(W)	t _{PD} = 30, 35, 40	480@30	Now
MAX100	7C346—128 Macrocell	84/100	CY7C346	5962-93144(W)	t _{PD} = 30, 35	320@35	Now
37Xi-44	7C372i—64 Macrocell	44	CY7C372i	5962-97597(O)	f _{MAX} /t _S /t _{CO} =83MHz/8/8	300@83	Now
37Xi-84	7C374i—128 Macrocell	84	CY7C374i	5962-97598(O)	f _{MAX} /t _S /t _{CO} =83MHz/8/8	370@83	Now
37Xi-160	7C375i—128 Macrocell	160	CY7C375i	5962-97599(O)	f _{MAX} /t _S /t _{CO} =83MHz/8/8	370@83	Now
Ultra37000	64-Macrocell, 5V	44	CY37064	5962-99519(O)	f _{MAX} /t _S /t _{CO} =154MHz/5/4.5	30	Now
Ultra37000	64-Macrocell, 3.3V	44	CY37064V	5962-99520(O)	f _{MAX} /t _S /t _{CO} =100MHz/7.5/6.5	30	Now
Ultra37000	128-Macrocell, 5V	84	CY37128	5962-99521(O)	f _{MAX} /t _S /t _{CO} =125MHz/5.5/6.5	30	Now
Ultra37000	128-Macrocell, 3.3V	84	CY37128V	5961-99522(O)	f _{MAX} /t _S /t _{CO} = 83MHz/8/8	30	Now
Ultra37000	256-Macrocell, 5V	160	CY37256	5961-99523(O)	f _{MAX} /t _S /t _{CO} =125MHz/5.5/6.5	120	Now
Ultra37000	256-Macrocell, 3.3V	160	CY37256V	5961-99524(O)	f _{MAX} /t _S /t _{CO} = 66MHz/10/10	120	Now
Ultra37000	512-Macrocell, 5V	208	CY37512	5961-99525(O)	f _{MAX} /t _S /t _{CO} =100MHz/6/6.5	240	Now
Ultra37000	512-Macrocell, 3.3V	208	CY37512V	5961-99526(O)	f _{MAX} /t _S /t _{CO} = 66MHz/10/10	240	Now



Military Product Selector Guide

FIFOs

Organization	Pins	Part Number	SMD Number	Speed	I_{CC}/I_{SB} (mA @ ns/MHz)	Availability
1K x 9—Cascadable	28S	CY7C425	5962-91585	$t_A = 30$ ns	147/30 @ 25	Now
2K x 9—Cascadable	32	CY7C453		$t_A = 14, 20$ ns	160 @ 14	Now
32K x 9—Deep Sync	32	CY7C4271	5962-97631	$t_A = 15$ ns	40 @ 20 MHz	Now
64K x 9—Cascadable	32	CY7C466A	5962-99615	$t_A = 15$ ns	60 @ 20 MHz	Now
64 x 4—Cascadable	16	CY7C401	5962-89523	10, 15 MHz	90 @ 15 MHz	Now
64 x 8—Cascadable/OE	28S	CY7C408A	5962-89664	15, 25 MHz	120 @ 25 MHz	Now
512 x 9—Cascadable	28S	CY7C421	5962-89863	$t_A = 25, 30, 65$ ns	147/30 @ 25	Now

Timing Technology Products

Organization	Pins	Part Number	SMD Number	Speed (ns)	I_{CC} (mA @ ns)	Availability
Programmable Skew Clock Buffer (TTL Outputs)	32	CY7B991	5962-94522	$f_{REF} = 15\text{--}80$ MHz	75	Now
Programmable Skew Clock Buffer (CMOS Outputs)	32	CY7B992	5962-93112	$f_{REF} = 15\text{--}80$ MHz	75	Now

VMEbus Interface Products

Organization	Pins	Part Number	SMD Number	Speed (MHz)	I_{CC} (mA)	Availability
VME Address Controller	144/160	VAC068A	5962-92009	50	150	Now
VME Interface Controller	144/160	VIC068A	5962-92010	64	250	Now
64-Bit VIC	144/160	VIC64		64	300	Now
Bus Interface Logic Circuit	64	CY7C964				Now

Communication Products

Organization	Pins	Part Number	SMD Number	Speed (Mbps)	I_{CC} (mA)	Package	Availability
HOTLink Transmitter	28	CY7B923	5962-96895	160–330	95	L	Now
HOTLink Receiver	28	CY7B933	5962-96896	160–330	165	L	Now



Military Product Selector Guide

Notes:

1. (W) = Windowed Package, (O) = Opaque Package.

The following Cypress facilities have been granted Level Q (QML) certification by DSCC:

<u>Operation</u>	<u>Facility</u>	<u>Location</u>
Fab	Fab2	Round Rock, TX
	Fab4	Bloomington, MN
Assy/Test	Bangkok	Bangkok, Thailand
Test	San Jose	San Jose, CA
Test	CSPI	Manila, Philippines

All of the above products are available with processing to MIL-PRF-38535.

The speed and power specifications listed above cover the full military temperature range.

W = Windowed Package

O = Opaque Package

HD = Hermetic DIP Module

22S stands for 22-pin 300-mil DIP.

24S stands for 24-pin 300-mil DIP.

28S stands for 28-pin 300-mil DIP.

32S stands for 32-pin 300-mil DIP.

HOTLink is a trademark of Cypress Semiconductor.

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