

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
PREMIS™ Products		
W155	Spread Spectrum Frequency Timing Generator	09/29/99
W166	Spread Spectrum Frequency Timing Generator	12/20/99
W180	Peak Reducing EMI Solution	07/21/00
W180i	Peak Reducing EMI Solution	03/11/01
W181	Peak Reducing EMI Solution	07/21/00
W182	Full Feature Peak Reducing EMI Solution	06/08/00
W182i	Full Feature Peak Reducing EMI Solution	03/09/01
W183	Full Feature Peak Reducing EMI Solution	07/25/00
W184	Six Output Peak Reducing EMI Solution	07/25/00
W185	Six Output Peak Reducing EMI Solution	07/25/00
W245-30	Frequency Multiplying, Peak Reducing EMI Solution	11/16/00
W42C31-03	Spread Spectrum Frequency Timing Generator	09/28/99
W42C31-03A	Spread Spectrum Frequency Timing Generator	02/08/00
W42C31-04	Spread Spectrum Frequency Timing Generator	09/29/99
W42C31-06	Spread Spectrum Frequency Timing Generator	09/29/99
W42C31-09	Spread Spectrum Frequency Timing Generator	01/25/00
W42C32-05M	Spread Spectrum Frequency Timing Generator	01/05/01
W530-02	Frequency Multiplying, Peak Reducing EMI Solution	04/06/01
CY24239	Spread Spectrum Frequency Timing Generator	05/18/01
CY25568	Spread Spectrum Clock Generator	06/21/01
CY25811/12/14	Spread Spectrum Clock Generator	06/19/01
SG500	Low Jitter Spectrum Clock Generator for PowerPC Designs	07/12/98
SG556	Mobile Pentium Processor Application Clock Generator	05/17/01
XG571C	SMBus Frequency Clock Generator	05/17/01
EPROM Programmable Products		
CY2037	High Accuracy EPROM Programmable PLL Die for Crystal Oscillators	03/09/01
CY2039	High Accuracy EEPROM Programmable Crystal Oscillator	05/12/01
CY2071A	Single PLL General-Purpose EPROM Programmable Clock Generator	02/21/00
CY2077	High Accuracy EPROM Programmable Single-PLL Clock Generator	01/24/01
CY2081	Low-Cost, Three-PLL Clock Generator	07/03/96

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
CY2213	High Frequency Programmable PECL Clock Generator	11/29/00
CY2291	Three-PLL General Purpose EPROM Programmable Clock Generator	06/14/00
CY2292	Three-PLL General Purpose EPROM Programmable Clock Generator	06/14/00
CY2411	54 MHz MPEG Clock Generator with VCXO	06/07/01
CY2412	MPEG Clock Generator with VCXO	06/15/01
CY2413	Set Top Box Clock Generator with VCXO	06/15/01
CY2907	Single PLL General-Purpose EPROM Programmable Clock Generator	07/31/00
CY22381	Three-PLL General Purpose FLASH Programmable Clock Generator	06/26/01
CY22392	Three-PLL General Purpose FLASH Programmable Clock Generator	06/25/01
CY22393	Three-PLL General Purpose FLASH Programmable Clock Generator	06/12/01
CY22394	Three-PLL Serial Programmable FLASH Programmable Clock Generator	06/12/01
CY22395	Three-PLL Serial Programmable FLASH Programmable Clock Generator	06/12/01
ICD2051	Dual Programmable Clock Generator	04/01/95
ICD2053B	Programmable Clock Generator	10/01/95
ICD2061A	Dual Programmable Graphics Clock Generator	07/16/97

[EPROM-Programmable Clocks Samples Request Form](#)

Timing Signal Distribution Products

Zero-Delay		
CY2300	Phase-Aligned System Clock	11/20/00
CY2303	Phase-Aligned System Clock	01/24/01
CY2304	3.3V Zero Delay Buffer	05/08/01
CY2305	Low-Cost 3.3V Zero Delay Buffer for PC and SDRAM	12/16/99
CY23S05	Low-Cost 3.3V Spread Aware Zero Delay Buffer	11/27/00
CY2308	3.3V Zero Delay Buffer	05/08/01
CY23S08	3.3V Zero Delay Buffer	04/05/01
CY2309	Low-Cost 3.3V Zero Delay Buffer for PC and SDRAM	12/16/99
CY23S09	Low-Cost 3.3V Spread Aware Zero Delay Buffer	11/27/00
CY2509/10	Spread Aware, Ten/Eleven Output Zero Delay Buffer	05/16/00
W132	Spread Aware, Ten/Eleven Output Zero Delay Buffer	12/03/99
W152	Spread Aware, Eight Output Zero Delay Buffer	06/14/00
W162	Spread Aware, Zero Delay Buffer	07/31/00
W170-01	Spread Aware, Frequency Multiplier and Zero Delay Buffer	03/16/01
W194	Frequency Multiplier and Zero Delay Buffer	03/16/01
W217	Spread Aware, Eight Output Zero Delay Buffer	05/17/01
W223	SDRAM Buffer -2 DIMM	06/14/00
W223-02	SDRAM Buffer -2 DIMM	06/14/00
W232	Ten Output Zero Delay Buffer	08/08/00

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
<u>W243</u>	Clock Buffer/Driver	06/14/00
<u>FS781/82/84</u>	Low EMI Spread Spectrum Clock	05/07/01
<u>FS786/ FS787</u>	Low EMI Spread Spectrum Clock	05/04/01
<u>SM560</u>	Spread Spectrum Clock Generator	05/04/01
<u>SM561</u>	Spread Spectrum Clock Generator	05/04/01
<u>SM562</u>	Spread Spectrum Clock Generator	09/15/00
<u>SM566</u>	Spread Spectrum Clock Generator	05/04/01
<u>CG804</u>	Clock Generator for the DVD Player	05/17/01
<u>C9530</u>	PCIX I/O System Clock Generator with EMI Control Features	05/01/00
<u>C9531</u>	PCIX I/O System Clock Generator with EMI Control Features	05/02/01
<u>C9630</u>	PC133 Clock Generator for SiS630 / PentiumIII and SiS540 / Socket 7 Applications	05/02/01
<u>C9631</u>	Low EMI 166 MHz Clock Generator for SiS630S / Pentium III / Celeron Chipsets	05/02/01
<u>C9641</u>	133 MHz Clock Genertor for ALI 1641 Chipset System	05/02/01
<u>C9777</u>	Low EMI Clock Generator for 440BX, ALi1631 & Via Pro133+ / PentiumIII Systems	05/02/01
<u>C9801</u>	Low EMI ClockGenertor for Pentium II CPU Systems with Power Management	05/03/01
<u>C9806J</u>	SMBus Frequency Clock Generator for Advanced Mobile Pentium III Applications	05/23/01
<u>C9811X2</u>	Low EMI Clock Generator for Intel 810 Chipset System	05/03/01
<u>C9812</u>	Low EMI Clock Generator for Intel 810E Chipset Systems	05/03/01
<u>C9815</u>	Low EMI Clock Generator for Intel 133 MHz / 2 DIMM Chipset Systems	05/03/01
<u>C9821</u>	Direct RAMBUS Plus Clock Generator	05/03/01
<u>C9822</u>	Direct RAMBUS III Clock Generator	05/04/01
<u>C9827H</u>	High Performance Pentium 4 Clock Synthesizer	05/24/01
<u>C9827J</u>	High Performance Pentium 4 Clock Synthesizer	05/24/01
<u>C9832H</u>	High Performance Pentium 4 Clock Synthesizer	05/24/01
<u>C9850</u>	High Performance Pentium III clock Generator	05/03/01
<u>C9851</u>	Clock Generator for Pentium III Server and Workstation Application	05/04/01
<u>C9870G</u>	High Performance Pentium 4 Clock Synthesizer	05/24/01
<u>C9914</u>	Clock Generator for 100 MHz and 133.3 MHz Mobile Applications	05/04/01
<u>C9716J</u>	100 MHz Clock Generator with SSCG and Power Management for Mobile Applications	05/03/01
<u>C9926</u>	Low EMI Clock Generator for Intel 133 MHz / 2 DIMM Chipset Systems	05/04/01

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
C9929	Low EMI Clock Generator for Intel 133 MHz / 3 DIMM Chipset Systems	05/04/01
C9950	180 MHz Multi-Output Clock Driver	06/19/01
Z9951	3.3V, 180 MHz Multi-Output Zero Delay Buffer	06/18/01
Z9952	3.3V, 180 MHz Multi-Output Zero Delay Buffer	06/18/01
Z9953	3.3V, 110 MHz Multi-Output Zero Delay Buffer	06/18/01
Z9960	2.5V/3.3V, 200 MHz Multi-Output Zero Delay Buffer	09/15/00
Z9972	3.3V, 125 MHz Multi-Output Zero Delay Buffer	06/18/01
Z9973	3.3V, 125 MHz Multi-Output Zero Delay Buffer	09/15/00
Z9974	3.3V, 125 MHz Multi-Output Zero Delay Buffer	06/18/01
Z9975	3.3V, 150 MHz Multi-Output Zero Delay Buffer	06/18/01
Non-Zero-Delay		
CY2309NZ	Nine Output, 3.3V SDRAM Buffer for 2 DIMMs or 4 SO-DIMMs	01/23/01
CY2310ANZ	3.3V SDRAM Buffer for Mobile PCs with 4 SO-DIMMs	09/11/98
CY2310BNZ	3.3V SDRAM Buffer for Mobile PCs with 4 SO-DIMMs	11/16/00
CY2313ANZ	13 Output, 3.3V SDRAM Buffer for Desktop PCs with 3 DIMMs	09/11/98
CY2314ANZ	14 Output, 3.3V SDRAM Buffer for Desktop PCs with 3 DIMMs	09/11/98
CY2318ANZ	18 Output, 3.3V SDRAM Buffer for Desktop PCs with 4 DIMMs	06/30/99
CY2318BNZ	18 Output, 3.3V SDRAM Buffer for Desktop PCs with 4 DIMMs	11/16/00
W40S11-02	SDRAM Buffer - 2 DIMM	09/29/99
W40S01-04	SDRAM Buffer - 4 DIMM	04/05/01
W40S11-23	Clock Buffer/Driver	04/06/01
W48C54A/55A	Frequency Synthesizers	09/28/99
B9660	SMBus Clock Buffer for Mobile Applications	09/15/00
B9680	SMBus System Clock Buffer	09/15/00
B9688	SMBus System Clock Buffer	05/09/01
B9947	3.3V, 160 MHz, 1:9 Clock Distribution Buffer	06/18/01
B9948	3.3V, 160 MHz, 1:12 Clock Distribution Buffer	06/18/01
B9948L	2.5V/3.3V, 160 MHz, 1:12 Clock Distribution Buffer	06/18/01
B9852	High Performance PentiumIII Clock Buffer	05/09/01
B9940L	2.5V, 200 MHz, 1:18 Clock Distribution Buffer	05/24/01
B9946	3.3V, 160 MHz, 1:10 Clock Distribution Buffer	06/18/01
B9949	3.3V, 160 MHz, 1:15 Clock Distribution Buffer	06/18/01
SC660	SMBus System Clock Buffer for Mobile Applications	05/17/01
SC680E	SMBus System Clock Buffer	05/16/01
Z9102	Variable Delay Motherboard Clock Buffer	05/07/01
Z9104	Variable Delay Motherboard Clock Buffer	05/07/01

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
PC Products		
CY2210	133 MHz Spread Spectrum Clock Synthesizer/Driver with AGP, USB, and DRCG Support	01/06/00
CY2220	133-MHz Spread Spectrum Clock Synthesizer/Driver with Differential CPU Outputs	05/24/01
CY2254A	Pentium Processor Compatible Clock Synthesizer/Driver	06/12/97
CY2273A	Pentium/II, 6x86, K6 Clock Synthesizer/Driver for Desktop PCs with Intel 82430TX, 82440LX, or ALI IV/IV+, AGP and 3 DIMMs	10/13/98
CY2277A	Pentium/II, 6x86, K6 Clock Synthesizer/Driver for Desktop/Mobile PCs with Intel 82340TX and 2 DIMMs or 3 SO-DIMMs	11/22/00
CY2278A	Pentium/II Synthesizer/Driver for Mobile PCs with Intel 82430TX and no SDRAM	10/14/99
CY2280	100-MHz Pentium II Clock Synthesizer/Driver with Spread Spectrum for Mobile or Desktop PCs	04/10/00
CY2285	100-MHz Pentium II Clock Synthesizer/Driver with Spread Spectrum for Mobile PCs	06/30/99
CY2287	100-MHz Spread Spectrum Clock Synthesizer/Driver with USB, Hublink, and SDRAM Support	06/23/99
CY22K7	133-MHz Spread Spectrum Clock Generator For Use With the AMD-K7 Processor and AMD-750 Chipset	08/09/99
CY28301	Frequency Generator for Intel Integrated Chipset	01/19/01
CY28316	FTG for VIA PL 133T and PLE133T	03/28/01
CY28317	FTG for Mobile VIA PL133T and PLE133T Chipsets	03/28/01
CY28318	Spread Spectrum FTG for VIA Chipset	04/05/01
CY28319	FTG for VIA Pro-266T DDR Chipset	06/06/01
CY28323	FTG For Intel Pentium 4 CPU and Chipsets	06/01/01
CY28324	FTG For Intel Pentium 4 CPU Chipsets	03/26/01
CY28325	FTG for VIA Pentium 4 Chipsets	05/09/01
CY28258	Memory Clock Buffer for 3 DDR and 2 SDRAM DIMMS	02/09/01
W127A	Spread Spectrum 3 DIMM System Frequency Synthesizer w/AGP	12/20/99
W130	Spread Spectrum Desktop/Notebook System Clock	10/27/99
W133	Spread Spectrum System Frequency Synthesizer	10/13/99
W137	FTG for Mobile 440BX & Transmeta's Crusoe CPU	03/16/01
W144	440BX AGPset Spread Spectrum Frequency Synthesizer	11/02/99
W147G	Frequency Generator for Integrated Core Logic	10/13/99
W149	440BX AGPset Spread Spectrum Frequency Synthesizer	11/16/00
W150	440BX AGPset Spread Spectrum Frequency Synthesizer	02/09/01
W156C	Spread Spectrum FTG for VIA MVP4	09/29/99
W158	Spread Spectrum System Frequency Synthesizer	10/12/99
W159	Spread Spectrum System FTG for SMP Systems	10/25/99
W161	133-MHz Spread Spectrum FTG for Pentium II Platforms	10/13/99
W164	Spread Spectrum Desktop/Notebook System Frequency Generator	12/16/99
W167B	133-MHz Spread Spectrum FTG for Pentium II Platforms	11/02/99

Cypress Semiconductor CD-ROM

Timing Technology

Part Number	Part Description	Last Updated
<u>W191</u>	Skew Controlled SDRAM Buffer	05/07/01
<u>W195B</u>	Frequency Generator for Integrated Core Logic	10/13/99
<u>W196</u>	Spread Spectrum FTG for 440BX and VIA Apollo Pro-133	10/19/99
<u>W199</u>	Spread Spectrum FTG for VIA Apollo Pro-133	12/18/00
<u>W204</u>	Spread Spectrum FTG for 440BX and VIA Apollo Pro-133	12/18/00
<u>W207B</u>	Spread Spectrum FTG for SiS540 and 630 Chipsets	11/16/00
<u>W208D</u>	FTG for Integrated Core Logic with 133-MHz FSB	02/10/00
<u>W209C</u>	Frequency Generator for Integrated Core Logic with 133-MHz FSB	11/16/00
<u>W210</u>	Spread Spectrum FTG for VIA K7 Chipset	04/11/00
<u>W211B</u>	FTG for 440BX, VIA Apollo Pro-133 and ProMedia	11/20/00
<u>W212</u>	Frequency Timing Generator for ALI 1641	04/05/00
<u>W215B</u>	Notebook PC System Frequency Generator for K6 Processors	12/27/99
<u>W217</u>	Spread Aware, Eight Output Zero Delay Buffer	05/17/01
<u>W218</u>	FTG for Integrated Core Logic with 133-MHz FSB	07/05/01
<u>W219B</u>	Frequency Generator for Integrated Core Logic with 133-MHz FSB	11/16/00
<u>W225</u>	Spread Spectrum FTG for 440BX and VIA Apollo Pro-133	12/18/00
<u>W228B</u>	FTG for Integrated Core Logic with 133-MHz FSB	04/10/00
<u>W229B</u>	Frequency Generator for Integrated Core Logic with 133-MHz FSB	07/05/01
<u>W230</u>	Spread Spectrum FTG for VIA K7 Chipset	07/31/00
<u>W230-03</u>	Spread Spectrum FTG for VIA K7 Chipset	09/07/00
<u>W232</u>	Ten Output Zero Delay Buffer	08/08/00
<u>W233</u>	Spread Spectrum FTG for VIA Mobile K7 Chipset	01/11/01
<u>W238</u>	FTG for Integrated Core Logic with 133-MHz FSB	11/16/00
<u>W247</u>	Spread Spectrum FTG for SiS730S Chipset	06/06/00
<u>W250-03</u>	FTG for Via Apollo Pro-266	11/29/00
<u>W255</u>	24 Output Buffer for 4 DDR or 3 SDRAM DIMMS	01/10/01
<u>W256</u>	12 Output Buffer for 2 DDR or 3 SDRAM DIMMS	03/16/01
<u>W281</u>	Spread Spectrum Frequency Timing Generator for Integrated CPU	07/31/00
<u>W300</u>	Frequency Controller with System Recovery for Intel Integrated Core Logic	11/20/00
<u>W305B</u>	Frequency Controller with System Recovery for Intel Integrated Core Logic	11/29/00
<u>W310</u>	Spread Spectrum FTG for Via K7 Chipset	04/06/01
<u>W311</u>	FTG for VIA Pro-266 DDR Chipset	03/15/01
<u>W312-02</u>	FTG for VIA KT266 Chipset with Programmable Output Frequency	11/29/00
<u>W320-03</u>	200-MHz Spread Spectrum Clock Synthesizer/Driver with Differential CPU Outputs	05/09/01
<u>W320-04</u>	200-MHz Spread Spectrum Clock Synthesizer/Driver with Differential CPU Outputs	05/21/01
<u>W532</u>	Frequency Multiplying, Peak Reducing EMI Solution	02/09/01

Cypress Semiconductor CD-ROM Timing Technology

Part Number	Part Description	Last Updated
W48C101-01	Spread Spectrum BX System Frequency Generator	05/07/01
W48C111-16	Frequency Generator for Integrated Core Logic	11/12/99
W48C111-17	100-MHz Mobile Motherboard System Clock	03/28/01
W48S111-14	Spread Spectrum Desktop/Notebook System Frequency Generator	10/07/99
W48S101-04	Spread Spectrum 3 DIMM Desktop Clock	10/19/99
W48S87-72	Desktop/Notebook Frequency Generator	08/04/00
RoboClock Skew Management		
CY7B991	Programmable Skew Clock Buffer (PSCB) - TTL	07/07/97
CY7B992	Programmable Skew Clock Buffer (PSCB) - CMOS	07/07/97
CY7CB991V	Low Voltage Programmable Skew Clock Buffer (LVPSCB)	10/01/98
CY7CB9910 RoboJr.	Low Skew Clock Buffer (PSCB) - TTL	07/07/97
CY7CB9920 RoboJr.	Low Skew Clock Buffer (PSCB) - CMOS	07/07/97
CY7B9911RoboClock+	High Speed Programmable Skew Clock Buffer (PSCB)	08/12/97
CY7B9911V RoboClock+	High Speed Programmable Skew Clock Buffer (PSCB)	12/01/99
CY7B993V RoboClock II	Robo II: High-Speed Multi-Phase Clock Buffer	07/06/01
CY7B9930V RoboClock II	High Speed Multi-Phase Clock Buffer	06/29/01
CY7B994V RoboClock II	High Speed Multi-Phase Clock Buffer	07/06/01
CY7B9940V RoboClock II	High Speed Multi-Phase Clock Buffer	06/29/01
Direct Rambus Products		
CY26501	533-MHz Direct Rambus Clock Generator	11/17/00
CY26502	533-MHz Direct Rambus Clock Generator	11/17/00
W134M/134S	Direct Rambus Clock Generator	02/18/00
W234	Dual-Direct Rambus Clock Generator	05/07/01
IMI Products		
SG587	Programmable NTSC/PAL Clock Generator	09/15/00
C6007B	Clock Generator for DVD Stereo System	09/15/00
C6006	Clock Generator IC for MD Audio System	09/15/00
CY2CC810	1:10 Clock Fanout Buffer	05/08/01
CY2CC1810	1:10 Signal Fanout Buffer w/ Output Enable	05/08/01
CY2DP814	1:4 Clock Fanout Buffer	05/08/01
CY2DP818	1:8 Clock Fanout Buffer	05/08/01
CY2DP8520	20 Bit Buffer/Converter with Output Enable(s)	05/08/01

Cypress Semiconductor CD-ROM

Timing Technology

Part Number	Part Description	Last Updated
2001 Application Note	Programming the W30X Series Clock Generators	01/05/01
2001 Application Note	Redundant Reference Input Switching	01/02/01
2000 Application Note	RoboClockII TEST Mode	12/11/00
2000 Application Note	Spread Spectrum Timing for Hard Disk Drive Applications	11/21/00
2000 Application Note	Terminating RoboClockII Outputs	11/27/00
2000 Application Note	Frequently Asked Questions about the RoboClockII Family	10/12/00
2000 Application Note	Replace MPC973 with RoboClock II	07/19/00
1999 Application Note	EMI Suppression Techniques with Spread Spectrum Frequency Timing Generator (SSFTG) Ics	07/22/99
1999 Application Note	Spread Aware	07/29/99
1997 Application Note	CY2305 and CY2309 as PCI and SRAM Buffers	07/29/97
1997 Application Note	CY2308: Zero Delay Buffer	07/01/97
1997 Application Note	Frequently Asked Questions about the RoboClock Family	10/20/99
1996 Application Note	Clock Terminology	07/09/97
1996 Application Note	Crystal Oscillator Topics	07/09/97
1996 Application Note	Jitter in PLL-Based Systems: Causes, Effects, and Solutions	07/07/97
1996 Application Note	Understanding the CY2254	07/03/97
1996 Application Note	Innovative Designs using the RoboClock Family	06/29/98
1996 Application Note	Generation of Synchronized Processor Clocks Using the CY7B991 or CY7B992	06/29/98
1996 Application Note	Layout and Termination Techniques for Cypress Clock Generators	07/24/97
1996 Application Note	Using CY7B991 (RoboClock), CY7B9911 (RoboClock+) and CY7B9910 (Robo Jr.) in 3.3-Volt Environments	10/22/99
1995 Application Note	Understanding the CY2291, CY2292, and CY2295	07/02/97
1994 Application Note	ECL Outputs	07/01/97
1994 Application Note	Everything You Need to Know About CY7B991/2 (RoboClock) and the RoboClock Family	12/17/99
1994 Application Note	Innovative RoboClock Family Application	06/29/98
1994 Application Note	RoboClock Family Test Mode	10/20/99
	CyClocks Software	
	BitCalc Software	