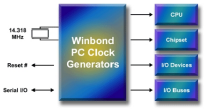
PC Clock Generators Overview

Single-chip Clock Generators from a single 14.318MHz crystal. The chips are designed for X86 CPU based systems and provides step-less or table-driven clock frequency programming for the most popular system configurations including CPU, chipsets, I/O devices and I/O buses. System EMI is reduced by the on-chip programmable spread-spectrum technology (both center and down types). Watchdog Timer and Clock Generators are provided for over-clocking and system timing margin analysis applications.

Related Links
- Key Features
- Applications
- Product Selection Guide
- How To Buy



Key Features

- Single chip clock synthesizer from one 14.318MHz crystal
- Clock outputs for X86 CPUs, system chipset, I/O device,I/O buses
- Watchdog timer / RESET# outputs
- Step-less CLK frequency programming by serial I/O
- Spread spectrum (center or down type)

Benefits

- Low cost for system clock needs
- Highly accurate outputs for better system reliability
- Support latest X86 CPUs, chipsets and industry I/O standards for better time to market
- Simple solution for over-clocking or timing margin analysis
- Reduced EMI by SST

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Applications

- Desktop PC Motherboards
- X86 Servers
- X86 Single-Board Industrial Computers
- X86 Set-top Boxes
- X86 Embedded Applications

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• Product Selection Guide

Part Number	Description	Package	Datasheet
W83193R-94	83.3MHz/100MHz Intel™ LV/EX Clock Gen.	SSOP 48	Request PDF
W83194R-17/-17A	100MHz SiS 5595, 5598 Clock Gen.	SSOP 48	Request PDF
W83194R-39/-39A	100MHz/133MHz (Adding 97MHz) VIA MVP3, VIA Apollo Pro Clock Gen., 3-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194R-27/-58/-58A	100MHz/133MHz VIA MVP3, VIA Apollo Pro Clock Gen., 3-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194R-81	133MHz SiS 530/620 Clock Gen., 3-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194R-67A/-67B	133MHz(Adding 97MHz) VIA MVP4 Clock Gen., 3-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194R-638/-638A	166MHz SiS540/630 Clock Gen., 3-DIMM, with S.S.T.	SSOP 48	Request PDF
W83195R-88	150MHz Intel™ BX Clock Gen., 4-DIMM, with S.S.T.	SSOP 56	Request PDF
W83196S-141-144	100/133/150/160MHz Clock Gen., with S.S.T.	SOP 28	Request PDF
W83194AR-W-We	200MHz Whitney 810/815e Clock Gen., 2-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194AR-96	200MHz Whitney 810/815e Clock Gen., 2-DIMM, with S.S.T.	SSOP 48	Request PDF
W83194BR-39B	Step-less Frequency VIA PCPM133, Intel™ BX Clock Gen., with S.S.T.	SSOP 48	Request PDF
W83194BR-730	Step-less Frequency SiS 730S, Clock Gen.,with S.S.T	SSOP 48	Request PDF
W83194BR-KX	Step-less Frequency VIA PCPM133 Clock Gen., 2-DIMM, with S.S.T.	SSOP 48	Request PDF
W83195BR-25	Step-less Frequency Solano 815 Clock Gen., 3-DIMM ,with S.S.T.	SSOP 48	
W83195BG-25	Step-less Frequency Solano 815 Clock Gen., 3-DIMM ,with S.S.T., Pb-free	SSOP 48	
W83194BR-260	Step-less Frequency VIA Pro266/PL266 Clock Gen.	SSOP 48	Request PDF
W83194BR-640	Step-less Frequency SiS 633/635/640 Main Clock Gen.	SSOP 48	Request PDF
W83194BR-740	Step-less Frequency SiS 733/735/740 Main Clock Gen.	SSOP 48	Request PDF
W83194BR-323	Clock Generator for Intel™ Brookdale™ series chipset	SSOP 48	
W83194BG-323	Clock Generator for Intel™ Brookdale™ series chipset, Pb-free	SSOP 48	
W83194BR-B	Step-less Intel™ 845 Main Clock Gen.	SSOP 48	
W83194BG-B	Step-less Intel™ 845 Main Clock Gen., Pb-free	SSOP 48	
W83194BR-663	Clock Generator for Intel™ P4™ Springdale™ series chipset	SSOP 48	
W83194BG-663	Clock Generator for Intel™ P4™ Springdale™ series chipset, Pb-free	SSOP 48	
W83194BR-P4X	Step-less VIA P4X/P4M Main Clock Gen.	SSOP 48	Request PDF
W83196R-718	VIA Buffer Chip(4 DDR or 2 DDR + 3 SDRAM)	SSOP 48	
W83194BR-645	Step-less Frequency SiS 645™ series Clock Gen.	SSOP 48	Request PDF
W83194BR-648	Step-less Frequency SiS P4™ series Clock Gen.	SSOP 48	Request PDF
W83176R-736	SiS P4 series Chipset DDR 3-DIMM DRAM Buffer	SSOP 48	
W83176G-736	SiS P4 series Chipset DDR 3-DIMM DRAM Buffer, Pb-free	SSOP 48	
W83176R-732	SiS P4 series Chipset DDR 2-DIMM DRAM Buffer	SSOP 28	
W83176G-732	SiS P4 series Chipset DDR 2-DIMM DRAM Buffer, Pb-free	SSOP 28	
W83176R-733	Dual Bank DDR Buffer for VIA™ chipset	SSOP 48	
W83176G-733	Dual Bank DDR Buffer for VIA™ chipset, Pb-free	SSOP 48	
W83194BR-K8	Step-less Frequency VIA K8™ chipset Clock Gen.	SSOP 48	
W83194BG-K8	Step-less Frequency VIA K8™ chipset Clock Gen, Pb-free	SSOP 48	
W83194BR-SD	Step-less Frequency INTEL 865™ series chipset Clock Gen.	SSOP 48	
W83194BG-SD	Step-less Frequency INTEL 865™ series chipset Clock Gen., Pb-free	SSOP 48	
W83195BR-341	Step-less Frequency VIA/P4M7 series chipset Clock Gen. Support 2-DIMM or 3-DIMM SDRAM	SSOP 56	
W83195BG-341	Step-less Frequency VIA/P4M7 series chipset Clock Gen. Support 2-DIMM or 3-DIMM SDRAM, Pb-free	SSOP 56	
W83194BR-655	Step-less Frequency SiS 655™ Series Clock Gen.	SSOP 48	
W83194BG-655	Step-less Frequency SiS 655™ Series Clock Generator, Pb-free	SSOP 48	
W83194BR-372	Step-less Frequency SiS K7™ with 963 Series Clock Gen.	SSOP 48	
W83194BR-703	Step-less Frequency SiS K7™ with 964 Series Clock Gen.	SSOP 48	
W83194BG-703	Step-less Frequency SiS K7™ with 964 Series Clock Generator, Pb-free	SSOP 48	
W83194BR-803	Step-less Frequency SiS K8™ Series Clock Gen.	SSOP 48	
W83194BR-PT	Step-less Frequency VIA PT800™ Chipset Clock Gen.	SSOP 48	
W83194BR-903	Step-less Frequency VIA PT880™ Chipset Clock Gen.	SSOP 48	
W83194BG-903	Step-less Frequency VIA PT800™ Chipset Clock Gen, Pb-free	SSOP 48	
W83194BR-911	Step-less Frequency VIA PT/PM Chipset Clock Gen.	SSOP 48	
W83194BG-911	Step-less Frequency VIA PT/PM Chipset Clock Gen., Pb-free	SSOP 48	
W83194BG-912	Clock Generator for VIA™ P4/KT™ Series Chipset, Pb-free	SSOP 56	Request PDF
W83195BR-101	Clock Generator for Intel™ 915™ / 925™ Chipsets	SSOP 56	
W83195BG-101	Clock Generator for Intel™ 915™ / 925™ Chipsets, Pb-free	SSOP 56	
W83195BR-110	Clock Generator for Intel™ 915 / 945™ Chipsets	SSOP 56	
W83195BG-110	Clock Generator for Intel™ 915 / 945™ Chipsets, Pb-free	SSOP 56	
W83195BR-120	Clock Generator for Intel™ 915 / 945™ Chipsets	SSOP 56	
W83195BG-120	Clock Generator for Intel™ 915 / 945™ Chipsets, Pb-free	SSOP 56	
W83195CG-413	Clock Generator for ATI™ chipset for Intel™ P4™ platform	SSOP 56	Request PDF
W83195WG-413	Clock Generator for ATI™ chipset for Intel™ P4™ platform	TSSOP 56	Request PDF
W83195CG-381	Clock Generator for ATI™ chipset for Intel™ P4™ platform	SSOP 56	Request PDF
W83195WG-381	Clock Generator for ATI™ chipset for Intel™ P4™ platform	TSSOP 56	Request PDF
W83195CG-416	Clock Generator for ATI™ chipset for AMD™ K8™ platform	SSOP 56	Request PDF
W83195WG-416	Clock Generator for ATI™ chipset for AMD™ K8™ platform	TSSOP 56	Request PDF
W83195CG-382	Clock Generator for ATI™ chipset for AMD™ K8™ platform	SSOP 56	Request PDF
W83195WG-382	Clock Generator for ATI™ chipset for AMD™ K8™ platform	TSSOP 56	Request PDF
W83195CW-NP	CK410B™ compliant Clock Generator for Intel™ Nape™ platform	TSSOP 56	Request PDF
W83195CG-NP	CK410B™ compliant Clock Generator for Intel™ Nape™ platform, Pb-free	TSSOP 56	
W83195RG-BW	CK505™ Clock Generator for Intel™ Broadwater™ platform, Pb-free	SSOP 56	Request PDF
W83195RG-BW	CK505™ Clock Generator for Intel™ Broadwater™ platform, Pb-free	TSSOP 56	Request PDF
W83176R-401	8 Current Mode Differential Clock Buffers for PCIe/SATA Clocks; compliance with CK409/CK410 Clocks	SSOP 48	Request PDF
W83176G-401	8 Current Mode Differential Clock Buffers for PCIe/SATA Clocks; compliance with CK409/CK410 Clocks, Pb-free	SSOP 48	Request PDF
W83176R-400	4 Current Mode Differential Clock Buffers for PCIe/SATA Clocks; compliance with CK409/CK410 Clocks	SSOP 28	Request PDF
W83176G-400	4 Current Mode Differential Clock Buffers for PCIe/SATA Clocks; compliance with CK409/CK410 Clocks, Pb-free	SSOP 28	Request PDF

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