


## Clock Generator

Part No.	W83116WG-511
Datasheet	 <a href="#">Request</a>
Description	<p>The W83116WG-511 is a low power clock synthesizer for Intel® Broadwater series chipsets, which has low power differential outputs, an integrated Voltage regulator, as well as an integrated 33Ω series resistor. It also provides all of the clocks required for the high-speed microprocessor, and step-less frequency programming.</p> <p>The W83116WG-511 supports 32 different frequencies of CPU, PCI, PCIEX clock setting, as well as SATA and DOT clock outputs. All clocks are externally selectable with smooth transitions.</p> <p>Programming the registers through I<sup>2</sup>C serial bus interface can enable or disable each clock output, reduce EMI by -0.5% down type spread spectrum or programmable S.S.T. scale. Dynamic over-clocking is also available.</p> <p>The W83116WG-511 accepts a 14.318 MHz reference crystal as its input and runs on a 3.3V power supply.</p>
Features	<ul style="list-style-type: none"> <li>› 3 Differential pairs of CPU clock outputs</li> <li>› 4x 3V66 clock outputs, and 10x PCI synchronous clocks</li> <li>› 24_48Mhz clock output for super I/O, and 48 MHz clock output for USB.</li> <li>› Skew form CPU to PCI clock 1 to 4 ns, center 2.6 ns</li> <li>› Smooth frequency switch with selections from 66.8 to 200MHz</li> <li>› Step-less frequency programming</li> <li>› I<sup>2</sup>C 2-Wire serial interface and support byte read/write and block read/write.</li> <li>› -0.5% and +/- 0.25% center type spread spectrum or programmable S.S.T. scale to reduce EMI</li> <li>› Programmable registers to enable/stop each output and select modes</li> <li>› Watch Dog Timer and RESET# output pins</li> </ul>
Diagram	N/A
Package	W83116WG-511: TSSOP 64 Pb-free package
Other Files	N/A
Development Tools	N/A
Others	N/A

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