MicroClock

Standard Product Listing

Desktop - Advanced System Clocks

- MK1414   - lowest cost motherboard clock synthesizer. Provides 32.768 kHz clock and 14.318 MHz clock, along with CPU and PCI.
- MK1425   - combines MK9155 functionality with 40MHz clock for SCSI. In 20 pin SOIC
- MK1432/4   - selectable local bus clock, low skew 2X/1X CPU clocks, single pin Power savings for Pentium™ and 486DX4 Green PC
- MK1433/5   - selectable local bus clock, low skew 2X/1X CPU clocks, early clock. In 16 pin narrow SOIC
- MK1438   - for Pentium. Uses both 32.768kHz and 14.318MHz crystal inputs. Provides all CPU, PCI, real time clock, keyboard, SIO
- MK1442/3   - 2X/1X low skew CPU clocks plus 24, 40 (SCSI), 20 (Ethernet), keyboard. In 16 pin narrow SOIC
- MK1448   - has selectable CPU clock, stereo codec clocks, plus 24.0, and either 12 or 16 MHz. In 16 pin narrow SOIC
- MK1477   - for PowerPC. Uses 14.318 MHz input. Provides keyboard, graphics controller, Ethernet, I/O, sound, and PCI clocks
- MK1480-03   - integrated CPU (host) and PCI buffers with peripheral clocks. Dual voltage with low EMI versions available. For Intel chipsets and on board peripherals such as sound. Has 4 CPU, 6 PCI and six fixed frequency clocks. In 28 SOIC
- MK1481-01   - SDRAM, CPU (host) and PCI buffers with peripheral clocks. Dual voltage with low EMI version available. For OPTi, UMC, SiS, ALi. Has 8 CPU/SDRAM, 6 PCI and 4 fixed frequency clocks, with support for sound on the motherboard
- MK1481-04   - SDRAM, CPU (host) and PCI buffers with peripheral clocks. Dual voltage with low EMI version available. For Intel, VIA, Cyrix chipsets. Has 8 CPU/SDRAM, 6 PCI and 4 fixed frequency clocks, with support for sound on the motherboard

Notebook/Handheld System Clocks

- MK3230   - runs off of 32.768 kHz crystal only, produces the CPU (386, 486, Pentium), floppy, 14.3 and keyboard clocks, power downs
- MK3233   - for handhelds. CPU clock, serial port clock, and RTC, with individual power down control, lowest current devices made
- MK3234   - for handhelds. Selectable CPU clock from 8 to 40 MHz, plus 14.318 MHz clock, 32.768 kHz clock, and power downs
- MK3235   - has 32.768kHz clock, serial port clock (1.8432 or 3.6864 MHz) plus 14.318 MHz clock and power downs. In 16 pin SOIC
- MK1437   - for Pentium notebooks. Has CPU, early CPU, local bus, floppy, and system clocks, single pin power down to under 1 µA
- MK1438   - for Pentium notebooks. Uses both 32.768kHz and 14.318MHz crystal inputs. Multiple power down modes. Tiny 20 SSOP
- MK1438-03, -04, -05, -06   - for Pentium notebooks using OPTi's Firestar. The -04 and -06 have USB frequency support
- MK1424   - for full-featured 486 notebooks. Six outputs and power down. In 16 pin narrow SOIC
- MK1491-01   - CPU (host) and PCI buffers with peripheral clocks and 32.768kHz, power downs. Low EMI version. For OPTi, ACC Micro, Intel. Available in the industry's smallest 28 pin package, the 150 mil wide SSOP. Also available in standard SOIC
- MK1491-02   - for notebooks using Intel 430TX chipset. 14.318 MHz crystal input with CPU (host), PCI, Super I/O support. Adjustable skew supports 2.5V CPU. Multiple power-down modes. Available in 28-pin SSOP or SOIC

Communications Clocks

- MK1403   - 8 pin crystal/clock multiplier with 4X, 5X, 6X and 8X output from an inexpensive crystal
- MK1407   - 16 pin for 155.52 MHz PECL clock for SONET, 4X, 8X and 12X PECL multiplier from an inexpensive crystal
- MK1574   - Frame rate communications with 8 kHz input. Outputs include T1, E1, T2, E2. 16 pin narrow SOIC
- MK2011   - 8 pin for Fast Ethernet boards with 20, 25, and 50MHz clocks
- MK2015   - 8 pin crystal/clock multiplier with 155.52 MHz PECL clock for SONET and 12X PECL multiplier
- MK2018   - 8 pin for 106.25 MHz Fibre Channel clock. Uses inexpensive and popular 20.00 MHz crystal input
- MK2150A   - 16 pin for ISDN terminal adapters. Includes 1.8432, 3.6864, 7.68, 12.288, 15.36, and 18.432 MHz selections

Miscellaneous Clocks

- MK1409   - 8 pin SOIC for computer peripherals. Provides USB, Super I/O, keyboard, SCSI clocks or 1.5X, 2X, 3X multiplier
- MK1703   - low EMI clock with spread-spectrum output. 1X, 3X, 4X multipliers. Crystal or clock input. 8 pin SOIC
- MK1704   - low EMI clock with spread-spectrum output optimized for SVGA and XVGA flat panels. Clock input. 8 pin SOIC

Miscellaneous (non-PLL)

- MK74CB177   - clock driver (16 outputs) with Early clock support. Each side can run at 3.3V or 5V. With PCI clock power down. In tiny 28 SSOP. For use with OPTi Viper N and Firestar chipsets
- MK74CB178   - Buffalo™ Clock driver (16 outputs) with Early clock support. Each side can run at 3.3V or 5V. In tiny 28 SSOP

- MK74CB214   - smallest Buffalo™, dual one-to-seven clock driver in 20 SSOP. Low skew (<250ps) outputs
- MK74CB216   - Buffalo™ dual one-to-eight clock driver (16 outputs). Each side can run at 3.3V or 5V. In tiny 28 SSOP

- MK712   - 28 pin Touch Screen Controller for analog resistive touch panels. In SOIC and SSOP

Multimedia Sound Clocks

- MK1413   - provides one of 4 selectable MPEG audio clocks (8.192. 11.2896, 12.288, 16.9344 MHz) from a 14.318 MHz input. SO8
- MK1415   - 8 pin for ESS wavetable sound chips. Produces 33 MHz output from a 14.31818 MHz input clock. Low jitter.
- MK1418   - the lowest cost 8 pin device with 16.9344 and 24.576 MHz outputs from a 14.31818 MHz input clock
- MK1420   - the original industry standard 8 pin package for Crystal CS4232 and Yamaha OPL3 and OPL4 series. Best jitter in industry
- MK1422   - 8 pin package for notebooks, has 16.9344, 24.576, 33.8688 MHz plus power down
- MK1419   - 8 pin for OPTi wavetable. Has 16.9344, 24.576, 33.8688, and 45.1584 MHz clocks
- MK1444/-02   - 16 pin for DSP, stereo codec, wavetable synthesis, and SCSI. MK1444-02 for Crystal wavetable solution.
- MK1446   - 8 pin package for Creative Technology sound chips. Has 46.6152 MHz output from a 14.31818 input clock. Power down.
- MK1463   - 16 pin for Creative's Sound Blaster chipset
- MK1467   - 16 pin for Creative's Sound Blaster wavetable chipset

Multimedia Video/Audio Clocks

- MK0220   - 16 pin for portable video CD players using C-Cube's CL480
- MK1410/1   - 8 pin package with NTSC/PAL frequencies. MK1410 has power down for notebooks. Ideal for AD722
- MK1427   - 8 pin low cost for CL450 and other MPEG I decoders
- MK1452   - 16 pin for AuraVision MPEG playback board
- MK1453   - general MPEG, Oak reference design. In 16 pin narrow SOIC
- MK1455/6   - 8x8 /Siemens or Philips videoconferencing reference platform. In 16 pin narrow SOIC
- MK1573   - 16 pin GenClock™ for genlock. Generates video frequency clocks synchronized to NTSC/PAL HSYNC
- MK1604/5   - 16 pin, low cost, for videoCD. For C-Cube 480, 482, 484, and Winbond reference designs
- MK1630/1   - 16 pin for desktop videoCD. Has NTSC/PAL, 40.0 or 40.5, 27, 16.9344, 13.5MHz, and selectable microcontroller clock
- MK2712   - 8 pin package with NTSC/PAL frequencies for video encoders and decoders. Has 14.3, 17.7, 28.6, 35.5MHz
- MK2742   - general set-top box/MPEG clock with multiple outputs, zero ppm audio. In 16 pin narrow SOIC
- MK2743   - provides all necessary clocks for C-Cube 60 and 66.66 MHz MPEG encoders. In 16 pin narrow SOIC
- MK2744   - general set-top box/MPEG clock with multiple outputs, zero ppm audio. Also Zoran AC-3. In 16 pin narrow SOIC
- MK2751   - MPEG with zero ppm audio, AuraVision and C-Cube support. In 16 pin narrow SOIC
- MK2752/3   - for ESS MPEG. Has 27, 13.5, 33MHz and selectable audio clock. In 16 pin narrow SOIC
- MK2761   - multiple 27.00 MHz outputs, plus zero ppm audio and fixed 3.6864, 16.67MHz for set-top box. In 16 pin narrow SOIC
- MK2762   - multiple 27.00 MHz outputs, plus zero ppm audio, 13.5, 33.0 MHz for MPEG and DVD

VCXO plus Video/Audio Clocks

- MK2727   - lowest cost integrated VCXO with 13.5 MHz input and single 27 MHz output. 8 pin SOIC
- MK2731-01   - low cost integrated VCXO with two selectable outputs and zero ppm error. In 16 pin narrow SOIC
- MK2731-02A   - low cost integrated VCXO with three selectable outputs and zero ppm error. In 16 pin narrow SOIC
- MK2731-02B   - low cost integrated VCXO with two selectable outputs optimized for communication systems. In 16 pin narrow SOIC
- MK2770-01   - integrated VCXO runs from low cost crystal to produce 27MHz VCXO output plus fixed frequencies with zero ppm error. Has selectable audio clock for MPEG frequencies. Multiple 27MHz outputs. In 20 pin SOIC
- MK2771-02   - integrated VCXO with selectable processor clock and fixed 3.6864, 11.0592, 18.432, and 49.152 MHz. In 20 pin SOIC
- MK2771-03   - integrated VCXO with 33.3 MHz fixed clock and selectable audio clocks for Zoran AC3 decoder. In 20 pin SOIC
- MK2772-01   - integrated VCXO with 16.67, 11.0592, 3.6864 MHz fixed clocks, selectable audio clocks, optional clock input

Modem Clocks and Combination Modem/Sound Clocks

- MK2510   - 16 pin for AT&T 28.8 modems and Ethernet
- MK2521   - 16 pin for Rockwell 14.4 and 28.8 with DSVD or Ethernet
- MK2530   - for new Rockwell 28.8/33.6kbps modems, DSVD, and sound. Has 50.6, 50.8, and 56.4 MHz output clocks. SO16
- MK2150B   - Motorola ISDN Card selectable UART and ISDN clocks. Fixed 4.096, 20.48, 36.864 MHz clocks. All zero ppm. SO16
- MK2560   - Motorola modem clocks of 1.8432 and 36.864 MHz, zero ppm error. 8 pin SOIC