BUYER'S GUIDE TO

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MAKING MUSIC WITH YOUR COMPUTER IS AS EASY AS A ONE, AND A TWO, AND A THREE, AND A FOUR... BY JOEY LATIMER

"That sounds like a mosquito!" I was told the first time I attempted to make music on a computer. Hearing that after several hours of programming made me want to scream. "If only I had a computerized synthesizer," I thought to myself. "I'd blow the critics away!"

Three years later, almost any computer user can generate computer music that *will* "blow the critics away!" Playing music with a computer no longer is a programmer's chore. It's become as easy as gliding your fingers across a keyboard, wiggling a joystick, or tickling a touch pad.

With today's music software and hardware, you *can* turn your computer into a synthesizer or composing tool. Your computer can tutor you in music theory and concepts, or play computerized renditions of your favorite songs. You're able to practice composing and playing songs using an add-on keyboard or your computer's own keyboard. When you're ready, you can record a song.

To get the right texture in your music, some music software and hardware let you pick different instruments for your orchestra. You can fix mistakes before anyone hears them. And best of all, when you've finished recording your song, you can save it on your own disk album and play it back for family and friends . . . all in the same day!

Sound farfetched? Expensive? Amazingly, not so. Check out the Music Software and Music Hardware charts on the next pages. Products are listed by key features such as price, compatibility, ease of use, and description/ comments. Manufacturer information also is provided. The text will help you evaluate which products on the charts are best for you and your family.

JOEY LATIMER, FAMILY COMPUTING'S associate technical editor on the West Coast, composes the musical Microtones programs each month. He is a musician, recording engineer, and computer programmer.

MUSIC SOFTWARE

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CHEPPY	**00°	HERE ECOLED			
ess Software, Inc. 78 W. 2100 S. t Lake City, UT 84120 1) 973-0123	MASTER COMPOSER \$34 Synthesizer and composing tool	Commodore 64: printer optional	Features powerful sequencer. Enter and save sheet music, or compose own.	DIFFICULT	3
ivision 60 Bayshore Frontage Road untain View, CA 94043 5) 960-0410	THE MUSIC STUDIO \$29.95 Synthesizer and composing tool	Commodore 64 plus joystick or KoalaPad; printer optional	Features easy-to-use animated screens and icons.	EASY	3
vorx N. Main St. port, NY 14450	ALLEGRO \$39.95 Synthesizer and composing tool	Commodore 64; game paddles and printer optional. Planned for Macintosh	Features comprehensive editing and compiling system.	DIFFICULT	3
0) 828-6574 p-Rhythm Software Mineola Blvd. leola, NY 11501 0.645 4441	CANTUS, THE MUSIC IMPROVISER \$54 Educational/game	Commodore 64	Plays randomly generated music using "patches" user creates.	AVERAGE	3
0) 645-4441 ed Publishing 35 Morrison St. rrman Oaks, CA 91403 8) 995-8811	MUSIC MADE EASY \$29.95 Educational	Apple II series; Commodore 64	Teaches music theory via drills and testing.	EASY	1
ri Corp. 2 Crossman Road . Box 61657	MUSIC II, RHYTHM AND PITCH Under \$25 Educational	Atari 800/XL/XE, 16K	Teaches rhythm and pitch via drill and practice.	EASY	1
nnyvale, CA 94088 8) 745-4851	MUSIC COMPOSER Under \$25 (cartridge) Composing tool	Atari 800/XL/XE, 16K	Enter, arrange, and edit music via menu choices.	AVERAGE	4
ckhawk Data Corp. 7 N. Michigan Ave. icago, IL 60601 2) 236-8473	TUNESMITH/PC \$49.95 Synthesizer and composing tool	IBM PC/PCjr, 96K	Lets user edit music-definition language of PC.	AVERAGE	1
oderbund Paul Drive n Rafael, CA 94903-2101 5) 479-1170	THE MUSIC SHOP \$44.95 Synthesizer and composing tool	Commodore 64; joystick and printer optional	Features icons, windows, and full-page music scores.	EASY	3
nputerWare 0. Box 668 cinitas, CA 92024 9) 436-3512	SYNTHER 77 \$24.95 (cassette); \$27.95 (disk) Synthesizer	TRS-80 CoCo, 32K	Turns keyboard into a 2-octave piano. Choice of 12 octaves.	EASY	1
ctronic Courseware stems 10 Lancaster Drive ampaign, IL 61821 7) 359-7099	MUSICAL STAIRS \$29.95 Educational/game	Apple II series, 48K; Commodore 64; IBM PC/ PCjr, 128K	Teaches concept of intervals via drill-and-practice game.	EASY	1
ctronic Arts 55 Campus Drive n Mateo, CA 94403 5) 571-7171	MUSIC CONSTRUCTION SET \$22.95-\$39.95 Synthesizer and composing tool	Apple II plus/IIe/IIc, 48K; Macintosh; Atari, 48K; Commodore 64; IBM PC/ PC/r 128K; joystick, KoalaPad, printer, and Mockingboard (Apple only) optional	Lets you cut, paste, and edit songs by moving icons around screen.	EASY	2-6
Tech Software). Box 185 n Valley, CA 91353	ADD MUS'IN \$39 Programmer's utility	Commodore 64 and Studio 64: Music Mate keyboard optional	Converts Studio 64 files for use in your own programs.	AVERAGE	3
8) 768-6646	STUDIO 64 \$39 Synthesizer and composing tool	Commodore 64; Music Mate keyboard optional	Converts computer keyboard into piano keys.	EASY	3
ture Vision). Box 34 Billerica, MA 01862	VIDEO TUNES \$34.95 (cassette) Composing tool	ADAM	Uses joystick control to place and edit notes on a staff.	AVERAGE	3
yden Software) Suffolk St. well, MA 01854 0) 343-1218	MUSIC WORKS \$79.95 Synthesizer and composing tool	Macintosh plus mouse: printer optional	Uses Macintosh's icons, windows, and high resolution to create quality graphics and music in a construction-set format.	AVERAGE	4
ala Technologies 65 Junction Ave. n Jose, CA 95131 0) KOA-BEAR	SPIDER EATER \$29.95 Educational/game	Commodore 64 plus KoalaPad	Teaches where notes are on a plano keyboard. Easy for children to create simple melodies and strange sounds.	EASY	1
stertronic International 11B Grove Road derick, MD 21701 01) 695-8877	MAKE MUSIC WITH MISTERTRONIC \$9.99 Composing tool	Commodore 64: joystick and printer optional	Includes five preset instrument sounds.	AVERAGE	1
lodian Inc. 5 Broadway, Suite 1202 w York, NY 10006 00) MEL-ODIA	CONCERT MASTER \$39.95 Synthesizer and composing tool	Commodore 64; Melodian keyboard optional	Features real-time three-track recording, including a metronome, variable tempo, and an animated musical staff.	AVERAGE	3
	RHYTHM MASTER \$39.95 Educational/game	Commodore 64; Melodian keyboard optional	Teaches rhythm patterns in a game format that gets more difficult as play progresses.	AVERAGE	1
ndscape, Inc. 44 Dundee Road rthbrook, IL 60062 0) 221-9884	BANK STREET MUSIC WRITER \$49.95 Synthesizer and composing tool	Atari, 48K; Commodore 64. Planned for Apple II series, IBM.	Lets you compose, edit, and play back songs. Tone shaping is represented by charts. Needs no prior musical knowledge.	AVERAGE	3-4
wArts Co. D. Box 2700 ntington Beach, CA	GUITAR CHORD POWER \$39.95 Educational	Commodore 64	Displays more than 8,000 chords with sound. Built-in tutorial teaches chord construction. Best for guitar players.	EASY	1
ssport Designs 5 Miramontes St., No. 103 If Moon Bay, CA 94019 15) 726-0280	MACMUSIC \$49.95 Synthesizer and composing tool	Commodore 64 plus joystick; may work with Soundchaser 64	Makes composing as simple as drawing. As you draw composition—you hear it!	EASY	3

All software on disk, unless otherwise noted.

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IS YOUR COMPUTER 'MUSICAL'?

There's no getting around the fact that making music with your computer depends on which computer you own. If you own a Commodore 64, you already have a powerful musicmaker in your home. That's because the C 64 contains what's called a SID (Sound Interface Device) chip that acts as a built-in programmable synthesizer and offers eight octaves of high-quality sound and three voices. Because of the SID chip, C 64 owners will find a multitude of compatible music products listed in the Music Hardware and Music Software charts. In fact, most of the under-\$200 add-on keyboards FAMILY COMPUTING took a look at work with the C 64.

That's great news for Commodore 64 users, but other computer owners shouldn't despair. Atari (four voices), Macintosh (four voices), VIC-20 (three voices), and TI/99-4A computers (three voices) also come equipped with sound chips, although less sophisticated than the SID chip.

Apple II series and TRS-80 Models III and 4 users have to work harder to make beautiful music because their machines have no true built-in sound capabilities. Apple and TRS-80 Model 4 computers come equipped with tiny builtin speakers, but their music quality is poor. Radio Shack's TRS-80 Model III computers don't have a speaker at all. They can be programmed to send music through the cassette port, but the musical results aren't so hot. Musical Apple and TRS-80 owners can upgrade their machines to the C 64's music level by adding an integrated circuit board that contains sound chips and output jacks for plugging into a stereo (we list several in the Music Hardware chart). For example, adding a Mockingboard card to an Apple improves the sound considerably and increases the number of voices from 1 to 6.

The new Yamaha Music Computer and Atari's ST computer both offer substantial music capabilities via their built-in MIDI interfaces (*see The Future of Computer Music, page 38*).

SOFTWARE THAT'S MUSIC TO YOUR EARS

With or without an add-on keyboard, it's music software that really makes your computer hum. Software packages fall into several categories. Some programs turn your computer into a sophisticated synthesizer or composing tool. Others are educational: pure music theory drill-and-practice or music tutorials (for more on this category, refer to July FAMILY COMPUTING, page 31). Some combine music education or composing lessons with a game format, and a few are technical utilities for musical programmers.

To evaluate which program is best for you or your family, first read the comments column in the Software Chart, and the Yes and No columns that detail specifics. Keep in mind that ease of use doesn't refer to the quality of the music the program can generate, but indicates how quickly the average computer user will be able to use the program.

Knowledge of the following terms will help you pinpoint the best software selection for your musical/computing needs:

Voices: The number of musical voices listed in this column of the Music Software chart equals the number of parts, or tracks, which can be used to create a musical arrangement using the program highlighted. The C 64, for instance, can produce three-part harmony or record a maximum of three tracks, so most software for the C 64 uses those three voices. Atari computers, however, have four voices, and not all music software uses them all.

Instruments: Some music programs have factory preset instrument sounds built in. For example, one program may offer guitar, piano, flute, and organ instrument sounds. That means you have only these instrument

USIC SOFTW	ARE Continued	stante	1	154	5	
	RONE	HERRIE EDITED	Complete	1055 OF USE	# voites	
assport Designs 25 Miramontes St., No. 103	MONO/POLY SYNTHESIZER Included with Soundchaser	Commodore 64 plus Soundchaser 64 keyboard	Lets user create monophonic and polyphonic synthesized sounds.	EASY	1–3	
If Moon Bay, CA 94019 15) 726-0280	Donania	Apple II series, 48K; Atari, 48K; Commodore 64; IBM	Simple composing tool saves melodies and songs.	EASY	3	
S. Broadway rrytown, NY 10591 14) 332-4545	Composing tool	PC (needs color graphics monitor adapter)/PCjr, 64K Commodore 64	Lets user overdub up to three	AVERAGE	3	
051 N. First St. an Jose, CA 95134	\$39.95 Composing tool	Commodore 64	layers of notes. Displays songs written with Song	AVERAGE	3	
00,010	SONG EDITOR \$39.95 Composing tool SONG PRINTER	Commodore 64	Builder. Lets user edit them.	AVERAGE	3	
	\$39.95 Printing tool SOUND MAKER	Commodore 64	Standard music notation. Provides 4-color graphic display that looks like front nanel of	AVERAGE	3	
	\$39.95 Sound-making tool		that looks like front panel of synthesizer. Lets user change tone and volume of sound.	AVERAGE	3	
ight & Sound Music oftware 200 S. 166th St.	MUSIC PROCESSOR \$24.95 Synthesizer and composing	Commodore 64; Incredible Music Keyboard and joystick optional	Includes powerful music editor with command language similar to BASIC.			
.O. Box 27 lew Berlin, WI 53151 800) 558-0910	tool MUSIC VIDEO KIT \$39.95 Educational/game	Commodore 64 plus joystick	Creates music videos including background scenes, actors, props, and music that user selects or writes with the program's help.	AVERAGE	3	
	3001 SOUND ODYSSEY \$24.95 Synthesizer/educational	Commodore 64: Incredible Music Keyboard and joystick optional	Includes powerful synthesizer and in-depth tutorial on sound synthesis, and sequencer for	AVERAGE	3	
	KAWASAKI SYNTHESIZER \$24.95 Synthesizer and composing	Commodore 64: Incredible Music Keyboard optional	recording. Two-disk set includes "The Performer" and "The Composer." Futuristic graphics enhance	DIFFICULT	3	
	tool KAWASAKI RHYTHM ROCKER	Commodore 64; Incredible Music Keyboard optional	music. Enables user to play synthesizer to bass and drum patterns while watching hi-res graphics displays.	DIFFICULT	3	
Spinnaker Software Corp. 1 Kendall Square	\$24.95 Synthesizer ROCK 'N RHYTHM \$26.95 Composing tool	Atari, 48K; Commodore 64 plus joystick	Record songs in a simulated recording studio. Play back songs on a jukebox.	AVERAGE	3-4	
1 Kendall Square Cambridge, MA 02139 (617) 494-1200 Springboard Software 7807 Creekridge Circle	Composing tool MUSIC MAESTRO \$34.95	Apple II series, 48K; color monitor recommended	Lets children 4–12 create tunes, learn note names, combine graphics with music.	EASY	1	
Minneapolis, MN 55435 (800) 328-1223 Sweet Micro Systems, Inc.	Educational/game SPEECH DEVELOPMENT SYSTEM	Apple II plus/IIe, 64K plus Mockingboard stereo/	Software utility allows user to modify phoneme string created by	AVERAGE	6	
50 Freeway Drive Cranston, RI 02920 (800) 341-8001	\$39.95 Utility software DEVELOPER'S TOOLKIT	synthesizer card Same as above	a text-to-speech algorithm. Helpful utility program eases the development of music and sound.	1.	6	
Tandy/Radio Shack	\$29.95 Composing tool ORCHESTRA-90	TRS-80 CoCo, 16K; Models I/III/4, 48K	Connects computer to stereo; lets	AVERAGE	5	
1800 One Tandy Center Ft. Worth, TX 76102 (817) 338-2395	\$79.95 Synthesizer LIGHT PEN MUSIC	Commodore 64 plus Music	Built-in communications package for CoCo.	EASY	3	
Tech-Sketch Inc. 26 Just Road Fairfield, NJ 07006 (800) 526-2514	COMPOSER AND PRINTER DUMP Included with Music Port Synthesizer and composing	Port keyboard, and Light Pen	menu; build, edit, save measures; and record up to 10 minutes of music.			
Triton Products P.O. Box 8123 San Francisco, CA 94128	MUSIC MAKER \$15.95 (cartridge) Composing tool	TI-99/4A (cartridge); storage system recommended	e Compose by moving notes on a staff and watch notes on sound frequency chart.	AVERAGE	3	
San Francisco, CA 94128 (800) 227-6900 Waveform Corp. 418 N. Buchanan Circle, No. 12 Pacheco, CA 94553	MUSICALC 1, SYNTHESIZER AND SEQUENCER \$29.95	Commodore 64; ColorTone Keyboard optional	Holds 32 preset songs and sound "patches" at one time. Lets user record notes while performing or while sequencing one note at a	and the second second second second	3	
(415) 825-1722	Synthesizer and composing tool MUSICALC 2, SCOREWRITER \$19.95 Printing utility	Commodore 64 plus MusiCalc 1 software	time. Prints scores from songs created using MusiCalc 1. Lets two or more Commodore 64s run	I DIFFICULT	0	T
	MUSICALC 3, KEYBOARD	Commodore 64 plus MusiCalc 1 software	MusiCalc at the same time to synchronize. Contains 70 preset scales and let you create new scales in conjunction with MusiCalc 1.	ets AVERAGE	0	
Yamaha International Corp.	\$19.95 Composing tool FM VOICING PROGRAM	Yamaha CX5M plus YK-01		DIFFICULT	8	
P.O. Box 6600 Buena Park, CA 90620 (714) 522-9011	\$50 Synthesizer and composing tool FM MUSIC COMPOSER	or YK-10 Yamaha CX5M plus YK-01	Displays staff on-screen for	DIFFICULT	8	
	FM MUSIC COMPOSER \$50 Synthesizer and composing tool	or YK-10	composing.	DIFFICULT	8	4
	FM MUSIC MACRO \$50 (cartridge) Synthesizer and composing tool	Yamaha CX5M; keyboard optional	Plug-in cartridge lets programmers add own sounds to own programs with their music computer.	to		

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All software on disk, unless otherwise noted.

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sounds available for playback in your compositions. A "Y" in this column means you have the flexibility to create your *own* instrument sounds and change those sounds until they're exactly as you wish. Creating and manipulating sounds usually is done by changing settings on your screen while listening to the results.

Saves/Loads Sounds: A program that saves and loads individual sounds lets the user create libraries of instrument sounds for later use. These sounds can be reloaded and used in the performance and playback of compositions. If a program doesn't save instrument sounds, those sounds are lost whenever the computer is turned off.

Saves/Loads Songs: This feature lets the user save entire compositions (as opposed to individual instrument sounds). This save step comes after the user records or sequences the song.

Accompaniment: A "Y" in this column means the music program offers automatic computer accompaniment. You've probably seen organs and electronic keyboards that play bass, drums, and rhythm while you play along. In many programs, your computer can provide this kind of accompaniment.

Graphics: If the music program you're interested in has a "Y" in this column, it's likely you'll need a color monitor to get the most out of the program. Parts of programs with color graphics display have been known to disappear on monochrome screens.

Records: Many frustrated musicians have a secret desire to go to a recording studio and record a song "live." When a program has a "Y" in this column, the recording studio comes right into your home! Software that records live performances can record a song as you play it, and then play it back for you.

Sequences: With many music programs, it's also possible to sequence notes individually. This means you're able to arrange the notes you want, place them where you want them (visually on a staff, for instance), and have the computer play back the song when you're ready (as opposed to recording everything at once, live). With some programs, you move the notes onto a graphic display of a music staff using a joystick, KoalaPad, or mouse. Other programs use the keyboard to sequence a song.

Tutorials: Many programs featured in the software chart contain built-in tutorials. If a program offers a help screen or a tutorial covering subjects necessary for the program operation, you'll find a "Y" in this column. Educational games, by their inherent nature, also earn a "Y" in this column.

Programming Info: One of a best ways to make your own game programs shine is to add music to them. Software packages with a "Y" in this column include documentation for programmers who want to add freshly synthesized creations to their own programming efforts.

Prints Scores: One of the most popular features among the new composing programs is score printing. If you're running a program with a "Y" in this column, and you have a compatible printer with graphics capabilities, you can print sheet music of your compositions. For serious musicmakers, having the printed sheet music can be a big help when editing a large composition.

BLOW THE CRITICS AWAY

Once you've chosen product(s) suitable for your own musicmaking tastes, you'll find yourself jamming in no time. I know several of the products highlighted on these pages have proven invaluable in my own computer music endeavors. My critics (family and friends within earshot) have forgotten my mosquito-buzzing musical efforts of the past. Now they listen to my computer music and say, "That sounds a lot like 2001: A Space Odyssey." I just smile.

THE FUTURE OF COMPUTER MUSIC

If you're interested in computers and music, you'll be hearing the word "MIDI" a lot in the future. MIDI (Musical Instrument Digital Interface) already is a big deal in the recording industry. A MIDI is an interface that links different makes and models of professional music equipment and synthesizers.

When a professional musician finishes a performance on a MIDI-equipped keyboard, he or she can go to a MIDIequipped computer and analyze the information (the speed and pressure at which the keys were hit, which keys were pressed, etc). The musician then can change, save, print, or reject the sounds.

On the home front, a MIDI interface makes it possible, for example, to link a Casio keyboard to an Atari computer. The Atari will store music, print scores, and provide video graphics, while the Casio hums out a tune using its built-in instrument sounds and rhythm patterns.

Several companies market MIDI interfaces for Apple, Atari, Commodore, and IBM computers right now in the

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\$100 to \$200 price range. The real cost comes in when you consider the price of a MIDI-equipped keyboard. The least expensive one we know of is the Casio CZ-101, and it retails for about \$500! Industry insiders, however, expect the price of MIDI interfaces and of MIDI-equipped computers to come down as home demand increases, so don't be surprised if current software and hardware packages are revised to become MIDI-compatible.

In fact, MIDI interfaces already are being integrated into personal computers. Yamaha's Music Computer contains a hot on-board eight-voice synthesizer. This computer lets you interface with either MIDI-equipped keyboards or two Yamaha compatible keyboards (*see Music Hardware chart*). Atari's ST computer also boasts a MIDI interface and advanced music capabilities.

For more information on the MIDI standard, call or write Hybrid Arts, 11920 W. Olympic Blvd., Los Angeles, CA 90064; (213) 826-3777, or log on to the 24-hour MIDI bulletin board at (213) 826-4288.

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COLORTONE KEYBOARD \$39.95	Waveform Corp. 418 N. Buchanan Circle No. 12 Pacheco, CA 94553 (415) 825-1722	25-key touch-sensitive keyboard. Full-size flat keys.† Plugs into joystick port. ColorTone Keyboard software included.*	Commodore 64	Easy	MusiCalc 1* MusiCalc 2* MusiCalc 3*
ECHO PLUS \$149.95	Street Electronics 1140 Mark Ave. Carpenteria, CA 93013 (805) 684-4593	Speech, music, and sound synthesizer card. Allows up to 6 voices. Requires stereo hookup.	Apple II plus/IIe, 64K; joystick or mouse optional	Average	Music Construction Set
INCREDIBLE MUSICAL KEYBOARD \$29.95	Sight & Sound Music Software, Inc. 3200 S. 166th St. New Berlin, WI 53151 (800) 558-0910	24-key plastic keyboard. Half-size keys. ⁺ Fits over existing computer keyboard. <i>Incredible Musical Keyboard</i> software and two music books included. [*]	Commodore 64	Easy	Music Processor* Music Video Kit* 3001 Sound Odyssey* Kawasaki Rhythm Rocker* Kawasaki Synthesizer* Allegro*
MELODIAN KEYBOARD \$99 (Keyboard) \$169 (Keyboard and Software)	Melodian, Inc. 115 Broadway No. 1202 New York, NY 10006 (212) 757-2287	40-key plastic keyboard. Full-size keys. ⁺ Comes with interfaces to plug into joystick and user ports. <i>Concert Master</i> , <i>Rhythm Master</i> software included. [*]	Commodore 64	Easy	Concert Master* Rhythm Master*
MOCKINGBOARD C \$179	Sweet Micro Systems, Inc. 50 Freeway Drive Cranston, RI 02920 (401) 461-0530 or (800) 341-8001	Stereo music and voice synthesizer card. Plugs into internal slot. Includes RCA interface cables for stereo hookup. Demonstration disk and text-to-speech algorithm included.	Apple II/II plus/IIe, 48K	Difficult	Speech Development System* Developer's ToolKit* Music Construction Set
THE MUSIC CARD MC1 \$75	ALF Products 1315 F Nelson St. Denver, CO 80215 (800) 321-4668	Internal nine-voice music synthesizer. Comes with software that lets Apple users enter musical compositions on disk. Songs can be played back through stereo system.	Apple II/II plus/IIe, 48K. Joystick optional	Easy	
MUSICMATE KEYBOARD \$99	Sequential Circuits 3051 N. First St. San Jose, CA 95134 (408) 946-5240	32-key plastic keyboard. Full-size keys.* Plugs into joystick port. One program included.*	Commodore 64	Easy	Song Builder* Song Editor* Song Printer* Sound Maker* Add MusIn* Studio 64*
MUSIC PORT KEYBOARD \$119.95	Tech-Sketch Inc. 26 Just Road Fairfield, NJ 07006 (800) 526-2514	32-key plastic keyboard. Full-size keys.* Plugs into user port. Light Pen Music Composer and Printer Dump program included.*	Commodore 64	Average	
ORCHESTRA-90 \$79.95	Radio Shack/Tandy Corp. 1800 One Tandy Center Fort Worth, TX 76102 (817) 338-2395	Stereo music synthesizer module with percussion. Plugs into I/O bus connector. Requires stereo hookup. Orchestra-90 software (cassette) included.*	TRS-80 Models III/4, cassette player	Average	
SOUNDCHASER 64 KEYBOARD \$100	Passport Designs 625 Miramontes St., No. 103 Half Moon Bay, CA 94019 (415) 726-0280	49-key plastic keyboard. Full-size keys. ⁺ Interface to plug into game port and jacks for stereo hookup included. <i>Monophonic</i> and <i>Polyphonic</i> software included. [*]	Commodore 64	Average	May work with MacMusic*
SOUNDMASTER II \$49.95	Kearsarge Industries 12310 Pinecrest Road Reston, VA 22091 (703) 620-5760	Internal board enables Apples to produce arcade and some music sounds. Requires stereo hookup.	Apple II/II plus/IIe, 48K	Easy	
YAMAHA KEYBOARDS \$100 (YK-01) \$200 (YK-10)	Yamaha International Corp. P.O. Box 6600 Buena Park, CA 90620 (714) 522-9011	YK-10 keyboard has 49 full-size keys; the YK-01, 48 half-size keys. + They plug into the CX5M.	CX5M Music Computer	Difficult	FM Voicing Program* FM Music Composer* FM Music Macro*

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