



## MPC1000 Product Overview



### Product Description

The Akai Professional MPC1000 Music Production Center combines a 64-Track MIDI Sequencer and a 32-voice Stereo Digital Sampler, with 16 velocity and pressure sensitive rubber pads in a compact and rugged package that makes it ideal for carrying around.

The MPC1000 inherits many of the major features of older MPCs such as the legendary "feel" and "groove" so that you can be sure that your beats and sequences just swing. It also features the original MPC60's intuitive transport and locate controls, the unique NOTE REPEAT function plus new additions such as the two Q-Link sliders that allow real-time interaction with tuning, filter cutoff, layer switching, attack and decay. Add to these a well established, friendly and intuitive user interface, two separate multi-effects processors plus a master output effects processor, resonant multi-mode filters, 4-way sample layering and velocity switching per pad, two MIDI ins and 32 MIDI channels via the two MIDI outputs, multiple audio outputs as standard, footswitch inputs for "hands-free" control, and you have a dependable "switch on and work" and "out the box" solution to computer sequencer headaches.

The MPC1000 comes with 16MB of on-board memory as standard that can be expanded up to 128 MB of RAM. It includes internal preset sounds in flash memory (factory sounds are user-replaceable). Standard Compact Flash is used as the storage medium. Present testing has verified the use of up to 2GB cards with the included 32MB Card. Furthermore, the MPC1000 supports the "Mass Storage Class" USB standard. When connected to a Mac or PC via its built-in USB port, this implementation allows to simply drag & drop data between the computer and the MPC1000's CF card.

### Positioning

A compact dedicated hardware sequencer/sampler that works well with computers too. Simply put, a real Akai MPC at an affordable price.

### Applications/Customers

Hip-Hop, R&B artists or "producers", as well as DJ/Live Club performers.

### Dimensions & Weight

- H x W x D:  
2.97" x 12.99" x 8.985"  
(max 9.235")  
75.5mm x 330mm x 228.2mm  
(Max 234.6mm)
- Weight: 7.6lbs / 3.45kg

This information is subject to change



## MPC1000 Key Features

### 1) Akai MPC design:

- Established, friendly, and intuitive user interface of MPC series
- MPC's legendary "feel" and "groove": beats just swing!
- Pattern-based and linear 64-track sequencer with 32 MIDI channels
- 32-voice drum/phrase sampler with up to 128MB RAM
- Great-feeling, velocity and pressure sensitive pads for expressive programming
- 16 levels function: one sound on all pads with varied level, tuning, attack, decay or filter per pad
- Two Q-Link sliders for real-time performance control

### 2) Computer friendly

- Built-in Compact Flash drive and USB port (Mass Storage Class)
- Standard WAV files samples and MIDI Files sequences
- 3<sup>rd</sup> party offline Pad/Program editor software and sample editing/processing software

### 3) Ready-to-go

- Built-in Analog and Digital I/Os, headphone output and 2 x MIDI In /Out
- Internal sounds in flash
- Portable laptop size and 19W power (can use car/airplane DC-AC adaptor) – ideal for taking on the road

### 4) Extensive sound control

- 4-way sample layering and velocity switching per pad
- 4-pole filters (two 2-pole filters) filtering for each of the 32 voices
- 2 onboard effects processors plus 1 main out effect processor; all which can be used simultaneously
- Can resample its own output

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## MPC1000 Specifications

### SOUND GENERATOR

- Data format: 16-bit linear WAV
- Sampling rate: 44.1 kHz
- Memory: 16MB standard (11.5MB sound memory), expandable to 128MB with EXM128 option
- Preset sound memory: 5MB Flash
- Recording time: 136 sec (16MB mono) 24m28sec (128MB mono)
- Polyphony: 32-voice
- Filters: 2 x 2-pole filters per voice
- Filter types: Low pass, band pass, high pass
- Number of active programs: 24 (with 64 pads per program)

### EFFECTS

- 2 general effects: Chorus, Flanger, 4-band EQ, Bit-Granger, Compressor, Phaser, Tremolo, Auto Pan, Reverb
- Master effect: 4 band EQ, Compressor

### SEQUENCER

- Capacity: 100,000 notes
- Resolution: 96ppq
- 99 Sequences
- 64 Tracks per sequence
- 32 MIDI output channels (16 channels x 2 output ports)
- Song mode: 20 songs, 250 steps per song
- MIDI Clock Sync: Master/Slave

### DRUM PADS:

- 16 velocity and pressure sensitive pads
- 4 pad banks
- 16 Levels: Velocity, Tuning, Filter Cutoff, Attack, Decay
- Track Mute and Next Sequence features for live performance

### GENERAL

- Display: 240x64 dot graphic LCD w/back light
- Memory Card slot: Compact Flash type 2 (up to 2GB)
- Standard accessories: 32MB Compact Flash Card, Power cable

### CONNECTIONS

- Record Input (L and R): ¼" jack x 2, balanced
- Digital Input: RCA x 1, SPDIF
- Stereo Output (L and R): ¼" jack x 2, unbalanced
- Individual Outputs: ¼" jack x 4, unbalanced
- Headphone Output: ¼" stereo jack x 1
- Digital Output: RCA x 1, SPDIF
- MIDI: 2 x MIDI In and 2 x MIDI Out
- USB: Device connector x 1 (Mass Storage Class support)
- Footswitches: ¼" jack x 2

### POWER

- 100-240V AC, 50/60Hz
- Consumption: 19W

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## MPC1000 FAQs

### **Q. What is the difference between pattern-based sequencing and linear sequencing?**

A. The MPC1000 can do both. With linear sequencing, the whole song is one long sequence which can be recorded continuously in real-time, much like an audio recorder, or edited by copying/pasting bars (such as verse, chorus, etc). This is good when recording tracks while playing live over the whole song. With pattern-based sequencing, a song is made of multiple short sequences (patterns) that can be re-arranged very quickly in Song mode or even in real-time using the Next Sequence feature.

However, unlike limited "groove-boxes" where patterns are only one or two bars, on the MPC1000, pattern/sequences can be of any length.

With the MPC1000, you can work on each pattern in a loop, switch patterns, and in Song mode, simply specify the order the pattern playback and number of repeats to create an arrangement. At any time, you can change the arrangement without tedious copying/pasting. In addition, if you decide to modify a pattern (say, the chorus sequence) after having created the song arrangement, it will automatically be modified in all the instances of the same pattern (i.e. all the choruses in this example). With linear sequencing, you would have to copy/paste the edited bars again, as many times as there are instances. Of course, with the MPC1000, you can also create of a copy a pattern if you want to modify only one instance.

### **Q. Are there internal sounds in the MPC1000?**

A. The MPC1000 comes with 5MB of internal sounds in flash (retained after power-off). Factory sounds can be replaced by user custom sounds. There are also around 20GB of sounds on the included 32MB Compact Flash card. Furthermore, more free sounds including classic drum machines and real drum kits and percussions are available for free download from the Akai Professional website.

### **Q. How do I get more sounds in the MPC1000?**

A. You can load sounds from Compact Flash cards, transfer standard WAV files via USB from a PC/Mac computer, or sample your own sounds via the analog or digital inputs (from a CD, for instance). The MPC1000 supports mono and stereo samples.

### **Q. Can I edit the sounds of my MPC1000 on a computer?**

A. Yes. Samples are standard WAV files and can be edited and processed in any sample editing software, such as the 'Audacity' freeware for Windows and Mac OS. Programs can also be edited offline on a computer using 3<sup>rd</sup> party Program editor freeware such as "MPC1000 Program Creator" for Windows XP/2000 and "MPC Pad 187" for Mac OS X. Sounds (programs/samples) and sequences can be transferred between the MPC1000 and the computer either via USB or via a Compact Flash card.

### **Q. I have a sample of a bass sound assigned to one pad. How can I play it on all the pads at different pitch?**

A. Simply press the '16 LEVELS' button, hit the pad that contains the bass sample and enable the 16-TUNING mode. Now, the bass sample can be played across all the pads with 16 chromatic tunings.

### **Q. I have created a beat on my MPC1000. How do I put it on a CD or send in on internet as an MP3?**

A. Once you have created a beat on the MPC1000, you can resample its own output as a stereo WAV file.

You can then transfer this WAV file to a computer (via USB or Compact Flash) and burn it to CD or encode it to MP3 using any software/shareware/freeware.



## MPC1000 FAQs

**Q. How do I connect my keyboard/synth to the MPC1000 and how do I control the sounds of my keyboard?**

A. Connect the MIDI Out of the keyboard to the MIDI In 1 of the MPC1000 and the MIDI Out A of the MPC1000 to the MIDI In of your keyboard. Set your keyboard to LOCAL OFF.

On the MPC1000, Mode: MIDI/SYNC, MIDI tab, set "Active Track Receive Channel" to ALL and "Soft Thru" to AS TRACK. After that, your keyboard will play the same sounds as the pads, i.e. whatever is set on the selected Track. The MIDI field of the selected sequence Track, on the Main page, controls where you direct the MIDI output from that Track. You can use this in combination with the Program field, so one Track can control both the MPC1000 sampler and/or an external synth. To automatically select sounds on your synth, you can embed Program Changes in a sequence by recording them or using the Step Edit Insert command. Of course, this only covers the MIDI data, not audio. To hear both the sound from the MPC1000 sampler and from your keyboard, the audio outputs of both units should be connected to a mixing board.

**Q. What is the benefit of having two sets of MIDI In / Out?**

A. The two MIDI Inputs allow connecting a MIDI controller (keyboard, drum pads) to one input while the other input is used to receive MIDI Sync from another unit such as a digital recorder. Otherwise, you would need an outboard MIDI Merger.

The two Midi Outputs allow the MPC1000 to control 32 external MIDI Channels (16x2), in addition to the 24 internal Programs. This is very useful if you have more than one outboard multi-timbral sound generator (for instance, your keyboard and a sound module).

This information is subject to change