Rozeta Sequencer Suite

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Quick Setup & Automation Guide

version 1.0.7

Version history

1.0.6	January 15, 2018	Initial publication
1.0.7	January 26, 2018	Updated with Automation specs

What are AU MIDI plugins?

Rozeta is a collection iOS plugins, all designed to do interesting and creative things with MIDI. They are based on the new AU MIDI format introduced by Apple in iOS11. AU MIDI is a plugin standard, much like ‘normal’ Audio Units, but wih added functionality for processing and sending out MIDI data. For this reason it is not possible to use Rozeta on older versions of iOS; iOS11 is the minimal system requirement.

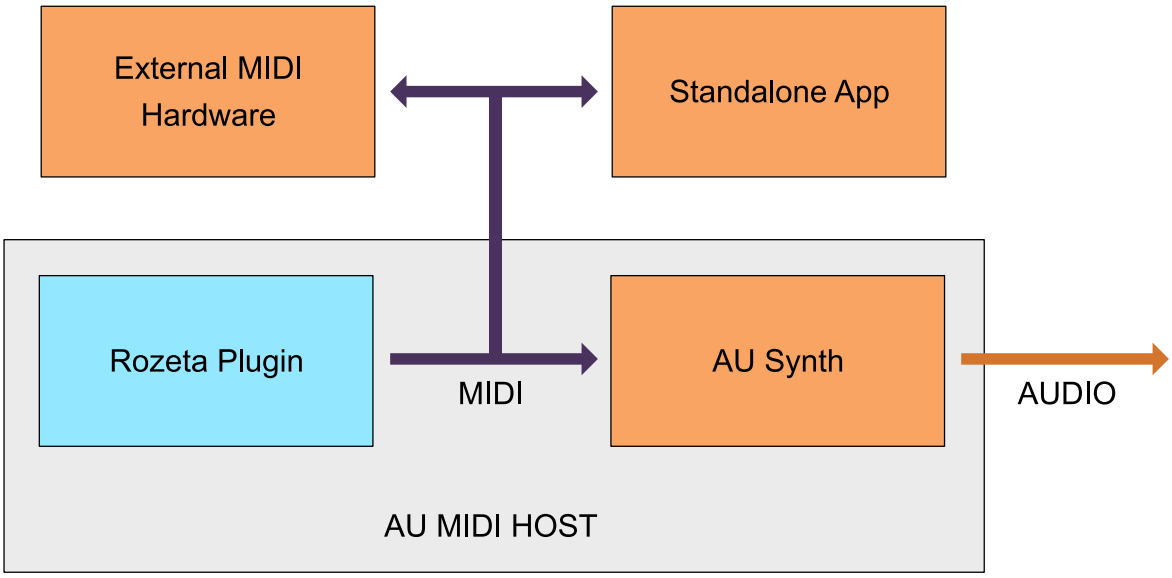
Additionally, they require an AU MIDI host - which means the AU host needs to support AU plugins which send out MIDI data and lets you route that MIDI to your synths of choice. Not all AU hosts have adopted the new standard yet, but the number is growing. At the time of writing AU MIDI is supported by AUM, Beatmaker 3 and Sequencism - with more host support from ‘the big names’ already in development. Contact your favorite host developer about AU MIDI support if it’s not supported yet.

The Rozeta app itself doesn’t do anything, so you can’t use Rozeta in standalone mode. But once the app is installed, your AU MIDI host will show all available Rozeta plugins immediately. They’re all packed into that single app! Each Rozeta plugin is only a few hundred kilobytes, and also in use their CPU/memory load is tiny compared to most music apps. This means they’re so lightweight you can run as many of them as you like without running into practical resource limitations any time soon.

When you host an AU MIDI plugin in your host and hit ‘play’ it will start generating MIDI. The host will receive this MIDI data and send it to your chosen destination. This could be another AU plugin, a standalone synth app, external hardware synths or anything else that can receive MIDI. Rozeta plugins also automatically sync to their host, so you don’t need to worry about MIDI clock or Link support. It just works.

1. Setting up Rozeta

Routing MIDI Output
Rozeta plugins require an AU MIDI compatible host to work. Each host works differently so the process for setting up Rozeta to work in a certain host will vary between apps.



Rozeta plugins generate MIDI when they run, so in your AU MIDI host you'll need to specify where this MIDI will be going. You could feed it into another AU synth hosted inside the AU. You could also send it out to another app, or to external MIDI hardware via an iOS MIDI interface.

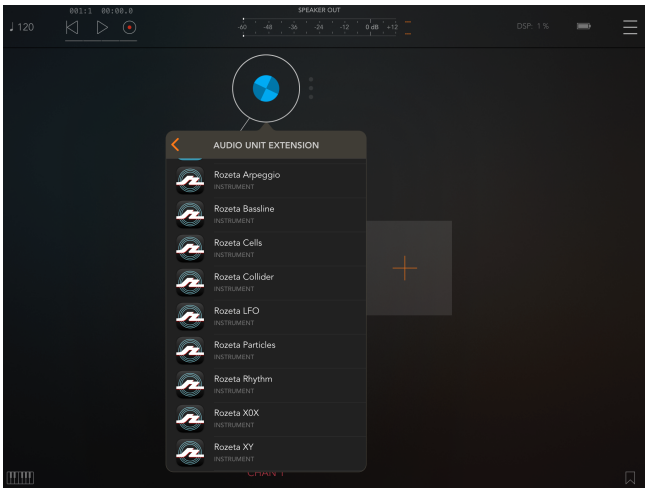
Most AU hosts let you specifiy the preferred MIDI sources for hosted instruments. In this example image, you'd go to the settings for "AU Synth" and set the "MIDI source" (or "MIDI input") to "Rozeta Plugin". This will tell the host to send all the MIDI created by the AU plugin into the synth.

MIDI Input
With the exception of Rozeta Arpeggio and Rozeta Cells all Rozeta plugins can function without MIDI input. However, most of the plugins can use MIDI input for control purposes, such as changing patterns, transposing melodies or triggering MIDI output. MIDI input typically comes from onscreen keyboards provided by the host or external MIDI controllers.

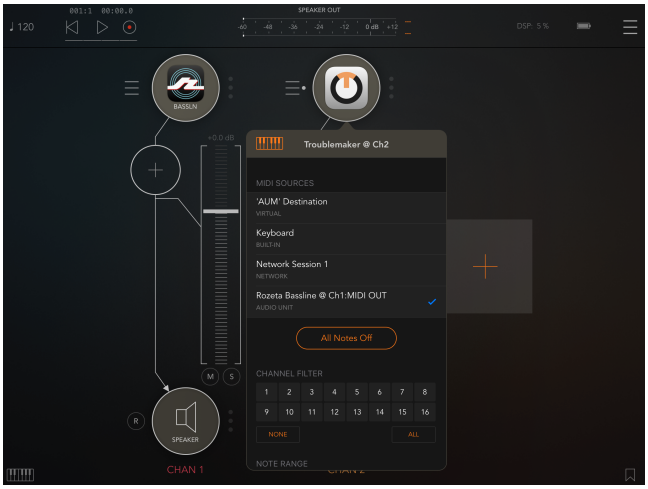
Obviously MIDI = MIDI, so you could also feed the output of one Rozeta plugin (e.g. cells) into another Rozeta plugin instead. This way you can use the transpose feature for creating chord progressions or feeding thick chords into the arpeggiator.

A. Using Kymatica AUM

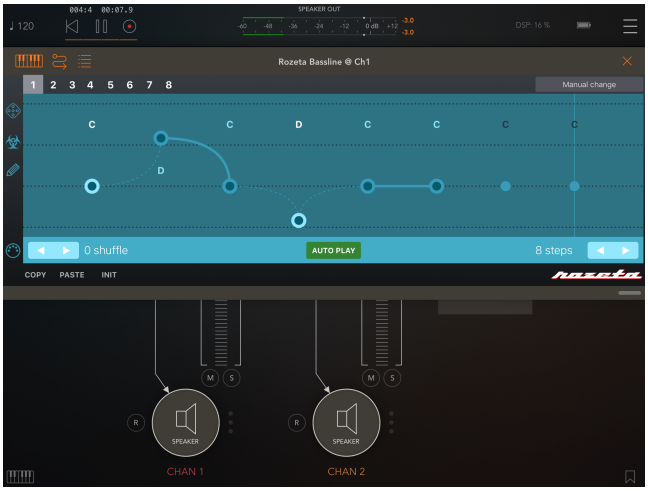
1. Start AUM and create a new channel
2. Tap the “AUDIO UNIT EXTENSION” category and select a Rozeta plugin (e.g. Bassline)



3. Create another AUM channel and load any AU synth plugin into it (e.g. Troublemaker)
4. Open the synth plugin’s MIDI settings panel and select “Rozeta Bassline” as the MIDI source
5. Go into the Rozeta Bassline plugin, add some notes



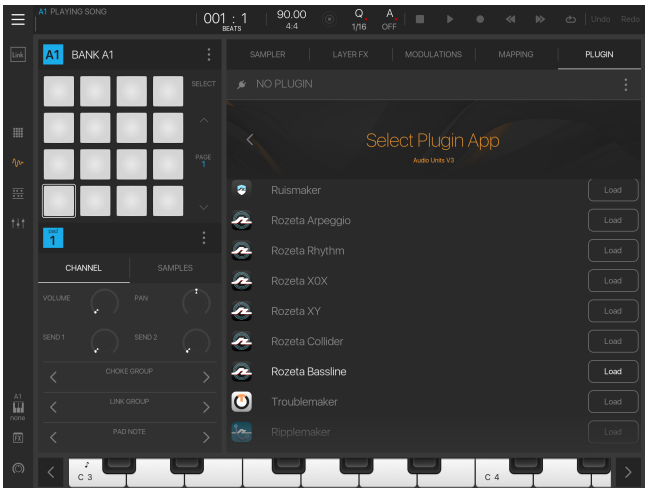
6. Press AUM’s play button to start pattern playback



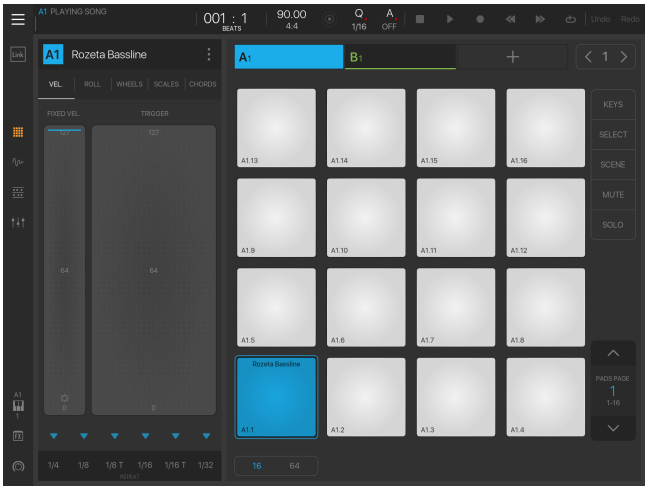
B. Using Intua Beatmaker 3

There are several ways of setting up AU MIDI plugins in Beatmaker 3, but for reasons of flexibility it is recommended to use banks for separating the MIDI generators from the synths; i.e. use one bank to contain one or more Rozeta plugins and use other banks for the synths who need to receive the MIDI.

1. Start AUM and create a new channel in the first bank (e.g. A1)
2. Load a Rozeta plugin into the first pad (e.g. Rozeta Bassline)

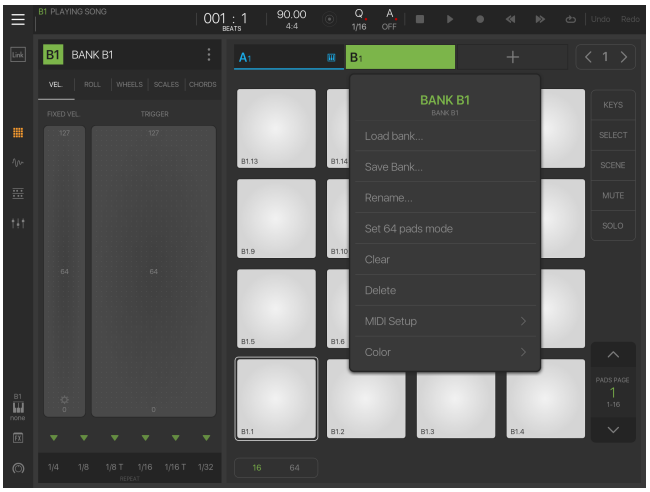


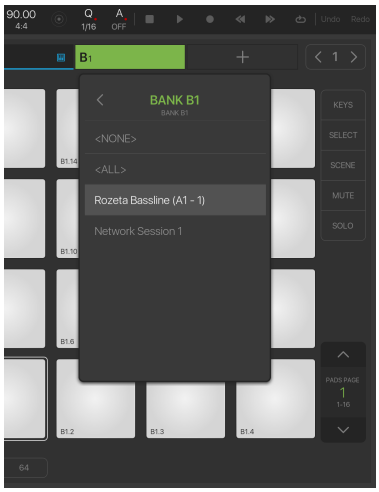
3. Make sure that the “keys” property is disabled for this bank; it’s in the right-hand tool panel



4. Open the Bassline plugin UI and add some notes

5. Go into Bank-view and create a new Bank (e.g. B1)
6. Long-press on the B1 bank tab to bring up its settings panel
7. Choose “MIDI Setup”, tap the “MIDI INPUT PORT” and select “Rozeta Bassline” as the input
8. If you’re setting up a drum machine plugin, you may need to set the MIDI channel to 10, in most other cases you can leave it at its default value





9. Make sure the “keys” property is enabled for this second bank, as it needs to be addressed as a melodic synth
10. hit play and you’re good to go

2. Automation

Some Rozeta plugins have parameters which can be dynamically automated. Depending on the host there are three ways to automate Rozeta AU plugins:
- by recording knob-movements in the plugin's user interface
- by sending AU Parameters
- by sending MIDI CC commands

Not all plugins support automation, and in those that do: not all parameters are automatable. This is because many parameters are not meant to be dynamically changed at high rates and could -for instance- result in very unpleasant discontinuities in MIDI output or the plugin seemingly losing sync with the host. Those that make sense and work well in a realtime automation context are listed below.

All values are 0-127. AU Parameters allow for sending fractional values.

A. Rozeta Arpeggio

AU Parameter	Octaves	Mutate	Velocity Normal	Velocity Accented	Accent Interval	
CC#	13	14	15	16	17	

B. Rozeta Bassline

N/A

C. Rozeta Cells

N/A

D. Rozeta Collider

AU Parameter	Pitch	Velocity	Number of Hadrons			
CC#	13	14	15			

E. Rozeta LFO

AU Parameter	LFO 1 Rate	LFO 1 Mod	LFO 2 Rate	LFO 2 Mod	LFO 3 Rate	LFO 3 Mod
CC#	13	14	15	16	17	18

F. Rozeta Particles

AU Parameter	Density	Pitch	Speed	Spread		
CC#	13	14	15	16		

G. Rozeta Rhythm

N/A

H. Rozeta X0X

AU Parameter	Level 1	Mutate 1	Level 2	Mutate 2	Level 3	Mutate 3
CC#	13	14	15	16	17	18

AU Parameter	Level 4	Mutate 4	Level 5	Mutate 5	Level 6	Mutate 6
CC#	19	20	21	22	23	24

AU Parameter	Level 7	Mutate 7	Level 8	Mutate 8		
CC#	25	26	27	28		

I. Rozeta XY

N/A

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