

Talko Terminal

Talko Terminal is here.

After the success of Emy in the Terminal desktop format, Talko now comes in the same proven enclosure.

Inside, it's the **full Talko Eurorack module**, offered as a standalone tabletop unit – USB-powered, compact, and perfect for anyone who wants Talko without a rack.

It runs the complete Talko2 engine: numbers, alphabets, phonemes, classic phrase banks, real-time pitch and speed control, plus the new Error mode for continuous glitch textures.

A 7-segment display shows the active bank or effect.

Talko Terminal includes a USB-C port for power, **serial communication**, and **UF2 drag-and-drop firmware updates**, making hacking and experimentation easy.

A key advantage over the Brickly version: **you get direct USB access**, so there's **no need to open the case** to communicate with Talko or flash new firmware.



Aria Vowel generator

Aria Firmware – A Vowel Synth for Emy & Terminal ☐☐

Unlock new vocal textures with **Aria**, a playful and expressive vowel generator for your **Emy** or **Terminal** module. Whether you're crafting robotic chants, abstract soundscapes,

or vocal-like modulations, **Aria** brings a fresh dimension to your synth setup.

□ **Key Features:**

✓ **Three Modes** – Trigger, Gate, and Continuous for flexible control

✓ **Smooth Transitions** – Adjust merge duration for seamless morphing

✓ **Customizable Parameters** – Sample rate, pitch, noise level & more

✓ **Easy Installation** – Load via SD card and switch firmware effortlessly

□ **Get Aria now for just €4.99** – includes future updates!

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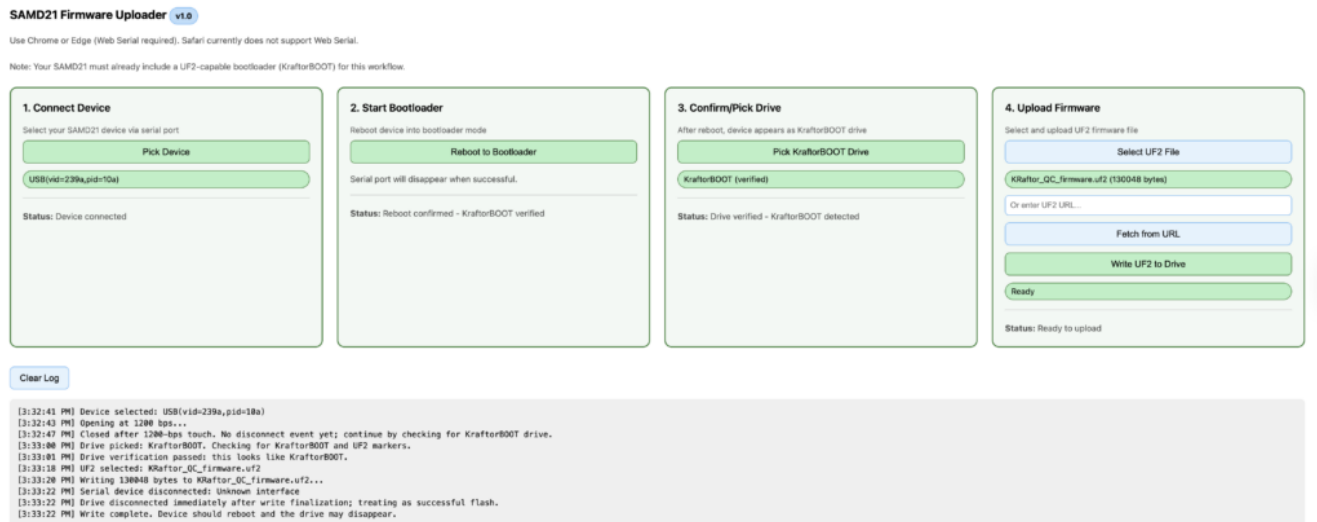
How to update or load a firmware on Kraftor ?

- Open the plastic case by gently squeezing the top part and lifting it while holding the lower part.
- Install your [voice board](#)
- Connect Kraftor to your computer via USB.
- Double-click on the reset button
- A new drive named “KraftoB00T” will show up on your computer, and the MIDI LED will start to glow gently
- Drag the firmware ending with “.UF2” to the “KraftoB00T” drive
- Done! : Kraftor will restart using the newly installed firmware

Kraftor uploader

If you just want to update the firmware without changing the voice board, you can also do everything remotely via USB without opening the case.

Use this small utility in your browser :



You can run the utility one line here https://deladriere.github.io/samd21_UF2_uploader/

or access the source code here :



GitHub - deladriere/samd21_UF2_uploader

deladriere/samd21_UF2_uploader

To upload your firmware into Kraftor

Nexus firmware update

2 new exciting firmware Updates for Nexus!

Enhanced MIDI Functionality:

- Text and Phoneme via MIDI: Send text or phonemes directly through MIDI.
- Sequencer Integration: Pre-store phoneme or text sequences in your piano roll. Add a “Speak” note at the end to activate speech.
- MIDI controls to adjust your Nexus device’s speech characteristics in realtime
- 20k Word Library: Access a vast collection of pre-made MIDI words, ready to drag and drop into your favorite sequencer.

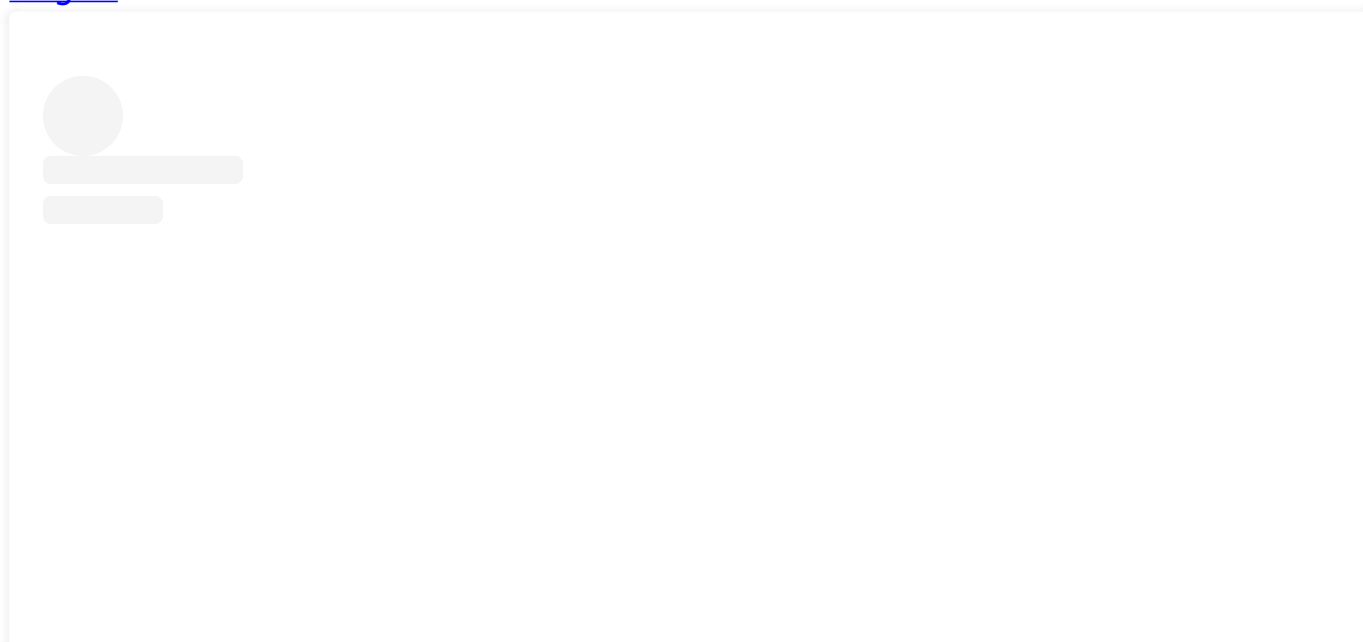


[20K words for NEXUS MIDI alphabet](#)

1 file(s) 10.62 MB

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Phoneme Mode:

- Simplified Selection: Easily choose from essential phoneme groups like “Vowels” and “Consonants.”
- User-Friendly Controls: Straightforward pitch and speed adjustments, perfect for beginners in speech synthesis.
- Simple Activation: Get started with just a gate signal.

Sino vox : now with keyboard input

Two updates to the Sino vox firmware :

1. **update** : in the number function, it is now possible to trigger the speech from the main button
2. **new**: keyboard mode



Connect a USB keyboard to the USB port using the gender changer adapter.

Do not use this port to power something apart from a standard keyboard.

The maximum current that can be provided is 300 mA.

If you need a keyboard, check out this [Wireless Keyboard](#).



□ **Text Operation:**

Type the text and **press Enter to start** the speech. (The Function button is also active)

Use the **Backspace to delete** the last character.

Use **Escape to erase the string** and start over.

Use the five potentiometers to alter the Speed, Voice, Pitch, Volume, and Language (Pinyin or English)

The busy signal goes up while a key is pressed. (if you want to trigger external sounds, for example)

Firmware



[Sino Firmware + TRS MIDI](#)

3 file(s) 68.54 KB

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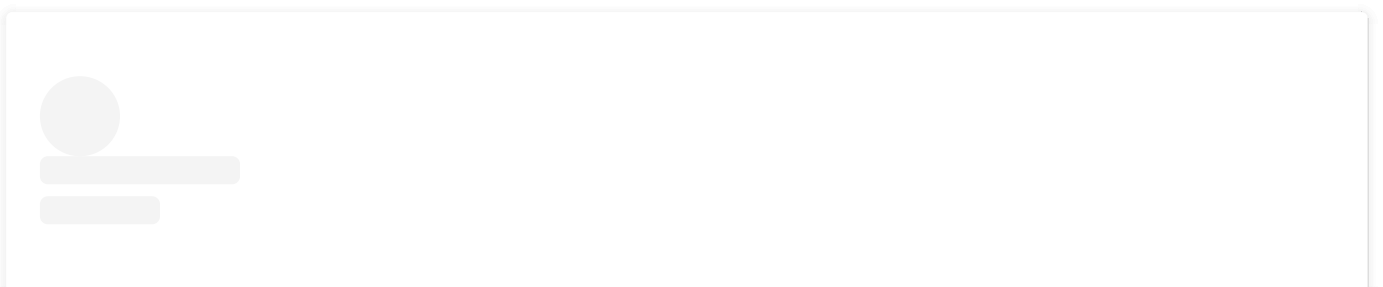
[Sino Firmware + USB MIDI](#)

5 file(s) 68.54 KB

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more info in the [user manual](#)





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How to update or load a firmware on Emy & Terminal ?

Option 1 (requires the Emy version 2.1 or bigger to be installed first)

- Download the firmware
- Save it on the SD card with a name that makes sense to you (like “emy.bin”)
- load it from the code>flash menu.
- If changing the add-on vox :
 - switch the power off
 - install the add-on vox
 - re-apply power

Note This function simply

- *copies the firmware “blalbla.bin” to “firmware.bin”*
- *reboots the system*
- *deletes the firmware.bin*
- *keeps the original with its name.*

You can keep all the firmware on the microSD card and call them whenever you change the add-on vox

Note : Change the firmware before changing the add-on vox

Option 2

- Download the firmware
- Save the firmware exactly as “**firmware.bin**” on the SD card (and not “**blabla.bin**”)
- Re-apply power

New text-to-speech module : Nexus vox

A truly remarkable pair of chips power up the Nexus vox.

These chipsets translate plain English text into speech in real time with complete dynamic control of the voice characteristics.

The TTS processor utilizes RC Systems' DoubleTalk TTS technology, based on a patented voice concatenation technique using actual human voice samples.

Voice control parameters, such as speed, volume, tone, pitch, and expression, can also be embedded within the text stream for dynamic, on-the-fly voice control.

There is even a real-time reverb effect!

A serious competitor for the [Vax_vox](#) module!

Say tuned for more demos...



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SP0 vox sustain allophones in phonetic files

Adding a duration marker to alter the normal duration of the allophone.

Here is the syntax to use in your .spo file : **(add a + marker and the duration in milliseconds)**

```
technology: \TT1 \EH +500 \KK1 \NN1 \AA +200 \LL \AX +200 \JH \IY
```

```
mathematics: \MM \AE \TH \AX \MM \AE \TT1 \IH \KK1 \S
```

```
spacecraft: \S \PP \EY \S \KK1 \RR2 \AE \FF \TT1
```

```
electronic: \IH \IH \LL \EH \KK1 \TT1 \RR2 \AA +200 \NN1 \IH +200 \KK1
```

```
electronic: \IH \IH \LL \EH +400 \KK1 \TT1 \RR2 \AA +800 \NN1 \IH +500 \KK1
```

SP0 vox : reading phonetic files

SP0 vox can read phonetics files from the microSD card.

Store your vocabulary in a text file and use “.SP0” for the extension

The structure of the file has to respect the following :

A label, followed by the allophone list, each separated by the \ character

```
1: \Ww \AX \AX \NN1
2: \TT2 \UW2
3: \TH \RR1 \IY
4: \FF \FF \OR
5: \FF \FF \AY \VV
6: \SS \SS \IH \IH \PA3 \KK2 \SS
7: \SS \SS \EH \EH \VV \IH \NN1
8: \EY \PA3 \TT2
Empty line
```

Check the [manual](#) for the list of the supported allophones

□ don't forget to add an empty line at the end of the file.

I also uploaded a dictionary of 130.000 words in phonetic format to get you started.



[135000 Words in phonetic for SP0](#)

(CMUDict)

1 file(s) 5.00 MB

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As usual, Emy sends the label over serial communication on the USB port. Here is another example where TouchDesigner is receiving the labels :

If you want to get started using TouchDesigner, also check this file



TouchDesigner basic

1 file(s) 4.42 KB

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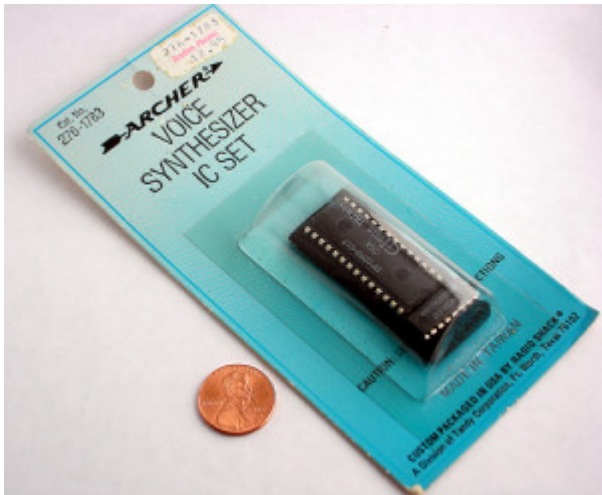
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: all it does is connect to Emy and display the text on the screen

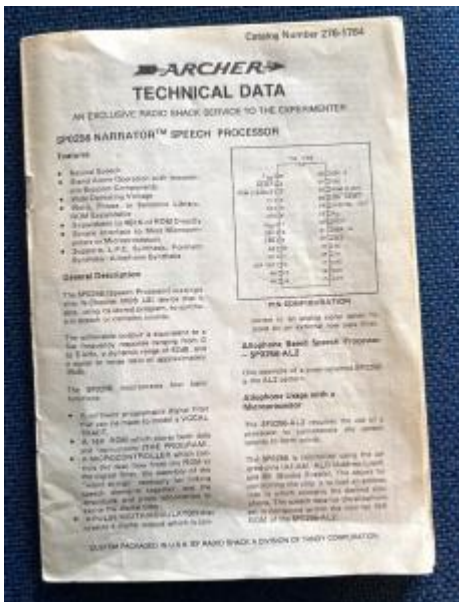
New add-on voice: SP0 vox

My first speech synth that got me hooked about them: the SP0256-AL2!

Back in the day, in the mid-'80s there was only one place to get electronics components: the Tandy Radio Shack store.

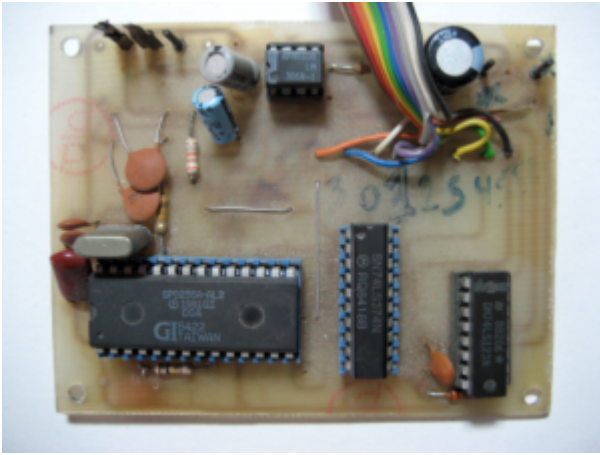


They would sell chips in individual packages accompanied by a printed datasheet (I still have mine).



They were selling the SP0256 Narrator which became quite popular and was used in many commercial speech synthesizers that were interfaced with microcomputers.

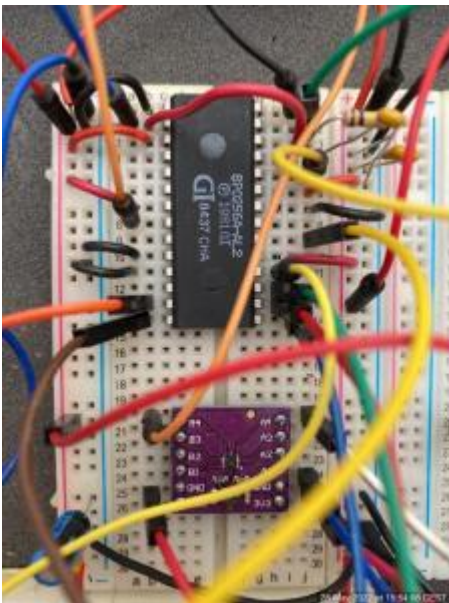
Soon I found a schematic to build a talking printer! It was entertaining to hear it speak for the first time!



Today I decided to create a new add-on board for Emy.

The chip has a great potential for making sounds: it sounds metallic, it can hold a phoneme until the next one and the pitch can be driven by an external oscillator.

(in fact, the most difficult part is finding these chips!)



After a few iterations on the breadboard and a few revisions of the board itself, I came up with a design that adds **2 new functions** to the chip:

- pitch control via the external oscillator
- volume control via a digital potentiometer driving an OP amplifier



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