

# New add-on voice: SpeakJet VOX

I guess that I don't have to present the SpeakJet anymore ☐

Let me highlight some of the functionalities that make this chip a very entertaining one to operate.



## The chip

### Natural phonetic speech synthesis.

SpeakJet uses allophones that can be chained to produce words, but it continuously calculates how to **best transition** them for a realistic speech.

Four special prosodic codes (\SLOW \FAST \STRESS \SOFT) allow the user to fine-tune the expression of the next allophone :

```
alphabet: \AY \L0 \FAST \FF \FAST \AX \STRESS \SOFT \BE \EY  
\SLOW \TT
```

Further tuning with the Rate, Pitch, Bend, and Volume parameters adds to the quality of the speech.

These parameters are fully accessible via CV control.

### 43 sound effects, and 12 DTMF Touch Tones

Using these sound effects can create authentic glitches and

beep sequences.

## **Programmable, 5-channel synthesizer**

The SpeakJet is also a tone synthesizer that can create complex sounds (this is not covered by our code yet)

## **Our code**

In this first code release, I implemented the following functions :

### **Allophone**

The user can choose which group to play: Vowels/Voiced/Voiced Stop/Voiceless/All Allophone/All Effects/DTMF

The priority can be given to:

- the Gate signal (Gate mode)
- optimized transitioning (Queue mode)
- to the allophone timing itself (Speech mode)

### **Number**

There are three modes to generate numbers: CV controlled, Looping or Random.

### **SD DIC**

The code will read a phonetic file and allow the user (or the code in the loop and random mode) to choose a line from that file.

Example of the file content:

```
along: \UX \L0 \0H \0H \SLOW \NGO
alpha: \AY \LE \FAST \FF \UX
alphabet: \AY \L0 \FAST \FF \FAST \AX \STRESS \SOFT \BE \EY
\SLOW \TT
already: \AW \LE \FAST \RR \EY \DE \IY
```

also: \SLOW \AW \SLOW \LO \SLOW \SO \OWWW

although: \FAST \OH \SLOW \LO \DH \SLOW \OWWW

always: \SLOW \AW \LE \WW \EYIY \SLOW \SE

There is a huge collection of words to get you started :



## [PhraseALator MIDI files for SpeakJet](#)

1 file(s) 790.00 KB

Login is required to access this page

[Login](#)



## [PhraseALator dictionary file for SpeakJet](#)

2 file(s) 99.95 KB

Login is required to access this page

[Login](#)



## [135400 Words in phonetic for SpeakJet \(CMUDict\)](#)

1 file(s) 5.00 MB

Login is required to access this page

[Login](#)

### **User control**

The potentiometer P1-P5 affects the **pitch, rate, bend, repeat, and volume.**

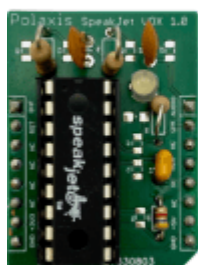
While playing with the interface, the display contextually shows the information about the changes made (rotary, switch,

and potentiometers)

A long click brings the user back to the main menu.

A double click in the SD DIC mode brings the user to the file selection menu.

There is a screen saver that will activate after 10 minutes. Turn the rotary to reactivate the display.



**SpeakJet**  
VOX

▪

## **SpeakJet vox**

€ 69,00 [Add to basket](#)