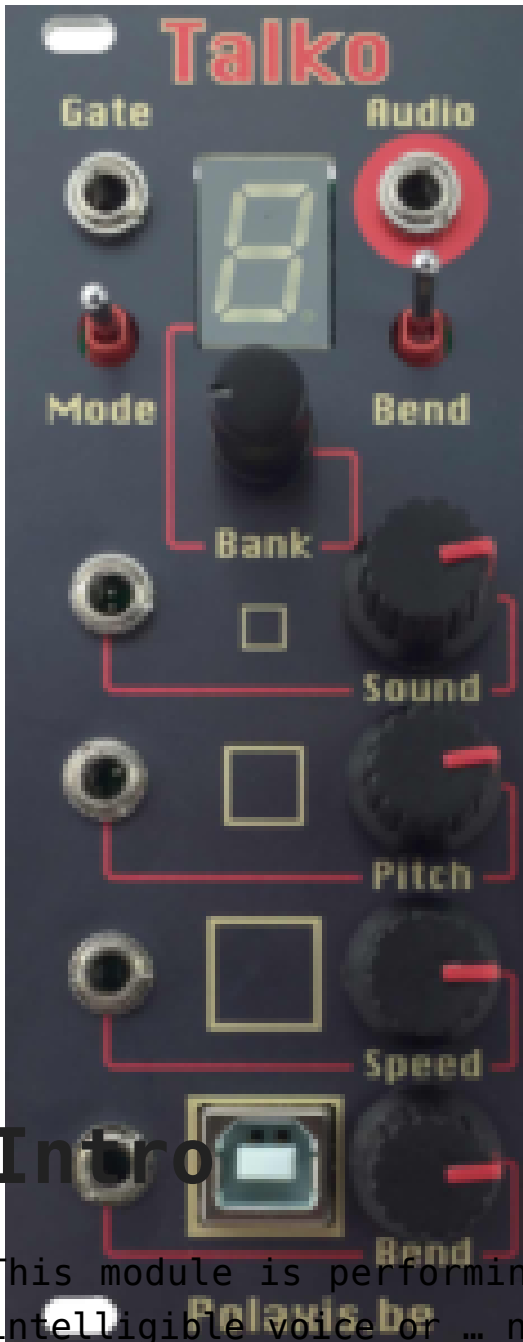


Talko

" Have your modular speak out the CV, the LPC, 8 bits, vintage way "



This module is performing real-time LPC synthesis to produce intelligible voice or ... not if you choose to.

The module produces sounds in 3 major modes: Speech, Repeat and VCO.

In Speech mode, the speech starts with a gate signal and complete before waiting for a new gate signal. The speech has the priority.

In Speech mode, the speech starts with a gate signal and complete before waiting for a new gate signal. The speech has the priority.

In Repeat mode, the speech starts and stops with the gate signal going high or low. The gate has the priority and the speech repeats while the gate is high. This mode is very useful to create crazy rhythms.

In VCO mode, the LPC engine loops while the gate is high, producing steady notes. The VCO mode can also produce sound using white noise instead of tones, making strange growling sounds.

The sound synthesis can be altered via CV signals to affect pitch, speed, bending.

Talko is an Arduino-based synthesizer developed under open-source hardware and software.

Its firmware can be updated via the onboard USB port.

The module can be powered via USB if needed.

The PCB has a breakout section connected to 4 of the ATmega328p free pins for hacking (included A4 & A5 for the I2C bus)

Technical details

□ format: Eurorack

□ width: 10hp

□ depth: 30 mm skiff friendly

□ power: + 12V: 65ma . Talko can also be powered via USB when using a jumper. □ audio: un-filtered 5V PWM carrier at 62500 Hz, the output is protected against over or under voltage by clipping from 0 to +5V

□ inputs: protected against over or under voltage by clipping from 0 to +5V

□ CV attenuators potentiometer on each CV entry

Banks

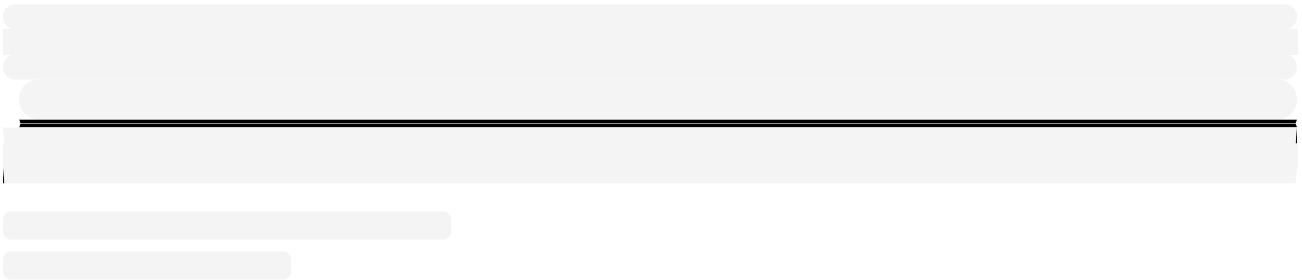
Talko can process 14 sound banks or functions:

- 0: **Digits** (from 0 to 9) male voice
- 1: **Digits** (from 0 to 9) female voice
- 2: Spell the **Alphabet**
- 3: **Nato alphabet**
- 4: **Vocabulary**
- 5: **Big numbers**
- 6: **Voltmeter** (reading the CV voltage)
- 7: **Frequency meter** (just saying "Hertz" instead of "Volts")
- 8: **Counter** (each gate trigger increments the counter while any cv change on the Sound entry resets it)
- 9: **Number radio** (each gate trigger a 4 number sequence while any change on the Sound entry trigger a new "transmission")
- 10: **Timer** since cv reset (each gate triggers saying the time in minutes/seconds while any cv change on the Sound entry resets the clock to zero)
- 11: **Random vocabulary** (60 words, see manual for details)
- 12: **Sentences** (12 sentences, see manual for details)
- 13: **French Vowels** "a e i o u"
- 14: **French Digits** (from 0 to 9) male voice
- 15: French vowels "a e i o u" (male)
- 16: English voiced allophones (72)
- 17: VCO friendly voiced allophones (25)





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User Manual

http://www.polaxis.be/wp-content/uploads/2016/05/Talko-Manual-1_2.pdf