

A background image showing two women from the chest up, smiling and holding up glasses of beer. The woman on the left has dark hair and is wearing a light-colored top. The woman on the right has light brown hair and is wearing a blue top. They are both holding clear glass mugs filled with golden beer and topped with a thick white head of foam. The text is overlaid on the center of the image.

ENDORPHINES[®]
TWO OF CUPS M/MIDI
TWO OF CUPS

FIRMWARE V3

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WARRANTY

1-year warranty guaranteed from the product's purchase date in case of any manufacturing errors or other functional deficiencies during runtime.

The warranty does not apply in case of:

- ❓ damage caused by misuse
- ❓ mechanical damage arising from careless treatment (dropping, vigorous shaking, mishandling, etc.)
- ❓ damage caused by liquids or powders penetrating the device
- ❓ heat damage caused by overexposure to sunlight or heating
- ❓ electric damage caused by improper connecting

The warranty covers replacement or repair, as decided by us. Please contact us via email for a return authorization before sending anything. Shipping costs of sending a module back for servicing is paid by the customer. Device complies with all EU regulations concerning RoHS lead-free manufacturing and WEEE disposal.

VISIT US

<https://endorphin.es>

<https://www.instagram.com/endorphin.es/>

<https://www.modulargrid.net/e/modules/browser/vendor:167>

<https://youtube.com/user/TheEndorphines>

<https://facebook.com/TheEndorphines>

https://x.com/endorphin_es

For technical requests: **support@endorphin.es**

For dealer / marketing inquiries: info@endorphin.es

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It is doing business as FURTH BARCELONA, S. L. (EU VAT ID: ES B66836487)

INTRO

TWO OF CUPS^{M/MIDI} a.k.a Mk 2 and **TWO OF CUPS** a.k.a. Mk 1 are 6 HP intuitive eurorack sample players with 8 banks of samples which share the same firmware. They consist of 2 identical sample player voices with zero-latency playback directly from the SD card. Each voice has CV control over pitch, gate and meta sample scan. **M/MIDI** version has additional universal type A or B TRS MIDI input to launch the samples via MIDI notes. Additionally each voice features a parameter knob that can set the decay of the internal decay envelope, sample's volume, pitch offset with +/- 2 octaves, enable and disable looping and sample select (offset) over 24 32 samples.

- Firmware v2R video manual: <https://youtu.be/69CwM8faryY>
- Firmware v1 quick start guide: <https://youtu.be/rdacPSxF4n4>

CONNECTING THE POWER

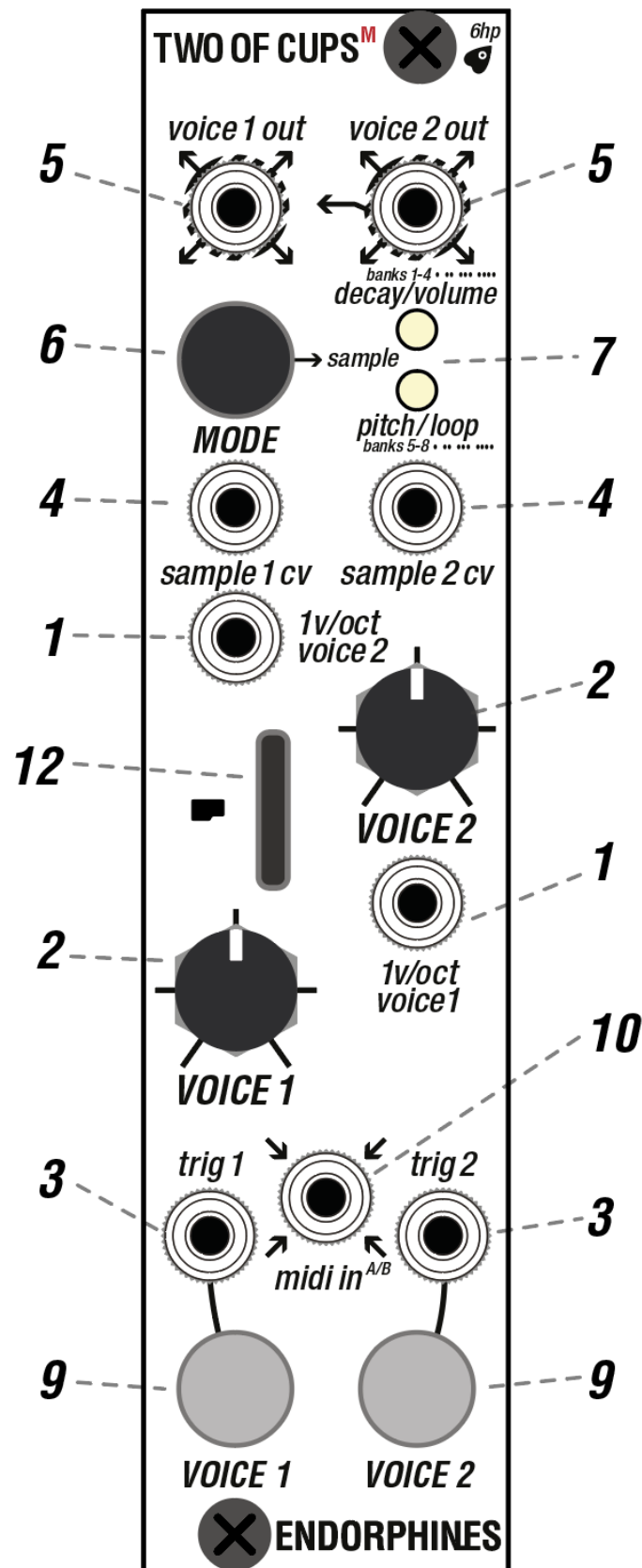
Before installing a new module in your case, you must ensure your power supply has a free power header and sufficient available capacity to power the module.

The power requirements for Two of Cups are +12V: 125mA, -12V: 20mA. Make sure to align the power cable with the '**RED/BROWN STRIPE**' label on the module for the 10-pin connector and with typically a white line for the 16-pin connector on the bus board.

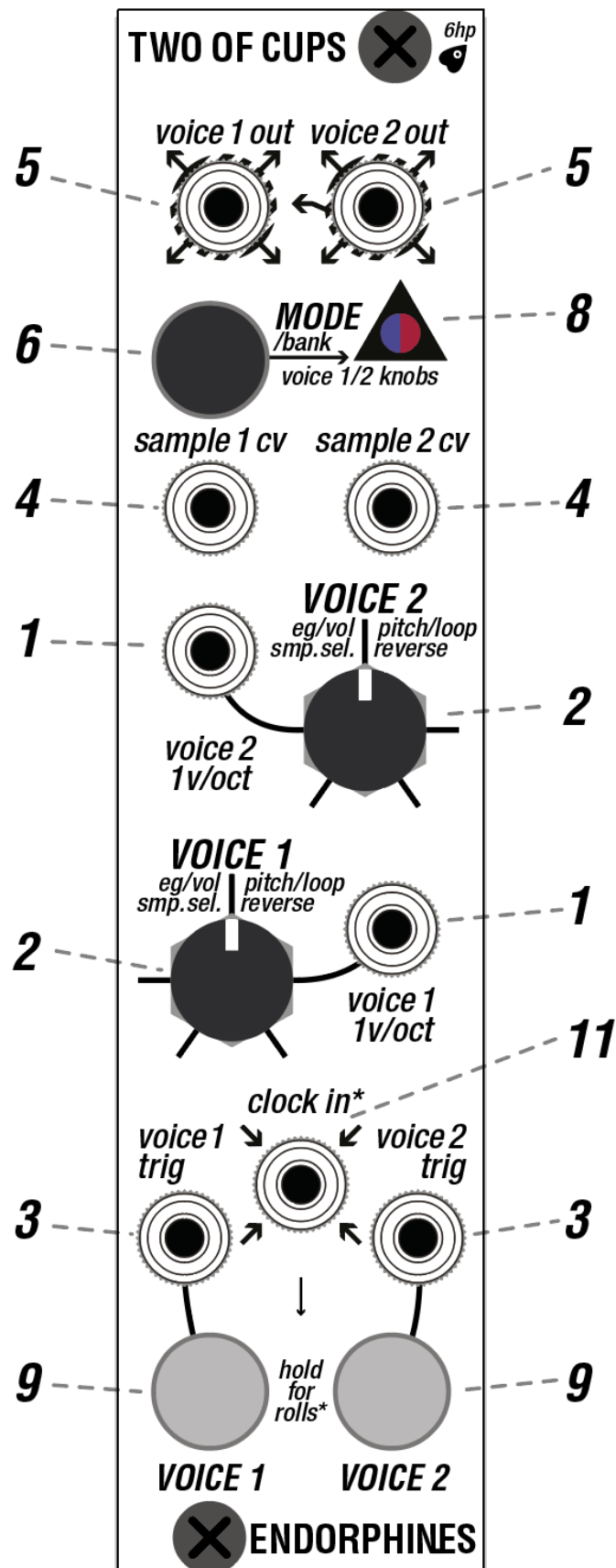
TECHNICAL SPECIFICATIONS

- Width: 6 HP/TE, depth: 25 cm / 1" with inserted ribbon cable
- Current draw: +12V: 125 mA, -12V: 20 mA
- CV range: -5...+5V compensated with offset knobs.
- Audio output: +/-5V eurorack standard

TWO OF CUPS^M/MIDI NEW INTERFACE



TWO OF CUPS **MK1** INTERFACE



1. **1V/OCT PITCH CV** inputs are the analog pitch CV jacks for the voices 1 and 2 which follow 1v/oct scale in range -5...+5V (10 octaves). Pitch voltage value is added to the manual pitch offset selection knob along with the MIDI note value. This lets you play the samples melodically using an analog sequencer or a CV keyboard. You can adjust v/oct scale and extra pitch offset in the [SETTINGS](#) files on the SD card.
2. **VOICE 1/2 PARAM KNOB** are corresponding voice 1 and 2 *PARAMETER* knobs, which set the values of each parameter in each of 5 modes per voice (see [MODES](#) below).
3. **VOICE 1/2 TRIG IN** are trigger/gate inputs for voice 1 and 2 used to trigger the samples, and since the internal envelope is an ASR envelope, you can vary the length of the sample by adjusting the gate's length.
4. **SAMPLE 1/2 CV IN** are *META CV* inputs for the voices 1 and 2 to select samples dynamically. Those jacks accept control voltage signals in the range of -5V...+5V. If no CV is applied and no manual sample offset selected using the **VOICE 1/2** parameter knob (2), the first sample of each voice's folder is chosen. Sample select voltage value is added to the manual sample offset selection knob (both  LEDs are on in the M/MIDI version or **FUCHSIA** in the MK1 version). You may add extra trigger delay in the [SETTINGS](#) to be able to change the sample under CV at the same time as the new trigger arrives at the input
5. **VOICE 1/2 AUDIO OUT** are corresponding voice 1 and 2 audio output jacks over which samples are played. If no cable is plugged into the VOICE 2 audio jack, both voices will be summed to the output of VOICE 1. **NOTE:** When playing back stereo samples, only their left channel is played.
6. **MODE/BANK BUTTON**. Short button press cycles thru 5 various [modes](#). Depending on the mode selected you are able to modify those parameters with VOICE 1/2 parameter knobs. Long press

switches to the next of [8 sample banks](#) by blinking certain times with blue or red LED.

7. **STATUS LED(s)** show(s) currently selected [MODE](#) with **MODE** button (6) as well as blink(s) certain amount of times showing selected [BANK](#):

→ **M/MIDI/MK2 version:** show currently selected mode with two **white** LEDs and their blinks showing selected bank

→ **MK1 version:** shows currently selected mode with a single [blue/red/fuchsia](#) colors

→

See [MODES](#) for dedicated color coding explanation

8. **VOICE 1/2 BUTTONS** are buttons to trigger the samples in each voice manually
9. **MIDI IN A/B** is a universal [both A and B](#) standard [TRS MIDI](#) input to trigger the samples via MIDI instead or along the analog pitch CV/gate signals. You may set the MIDI channel per each voice as well as assign each voice for a certain note (or full notes range) and add assignment to velocity to amplitude or sample select in the [SETTINGS](#)
10. **CLOCK IN*** is a clock input on the MK1 front panel that adds live fill/rolls functionality. When there is a clock signal applied to the **CLOCK IN* jack**, the **VOICE 1/2** buttons (8) trigger rolls following the clock instead of a single shot. Think of it as an alternative pattern that is enabled by manually holding the trigger buttons for each channel.

MODES

To switch the functionality of the **VOICE 1/2** parameter knobs (2), shortly press the **MODE** button (6) to scan through five available modes shown by the **STATUS LED(s)** (7). Each of the parameters selected applies to all samples played in that voice - i.e. to their volume, pitch, decay or looping. Shortly looking at the **STATUS LED(s)** informs you

quickly of what is currently editing with the parameter knobs. There is 1 **blue/red/fuchsia** color LED In MK1 version and 2 **white** LEDs in the M/MIDI/MK2 version, working identically:

Parameter	M/MIDI/MK2 version	MK1 version
Decay amount of internal decay envelope (DECAY: min. 10mSec, max. 10Sec; ATTACK = instant, fixed; SUSTAIN = maximum)	<i>decay</i>  	 BLUE
Voice (final) volume. From full silence at CCW to 100% gain at CW. In M/MIDI/MK2 version applies after the velocity in case it controls the amplitude	<i>/volume</i>  	 DIM BLUE
Voice pitch - +/-2 octave offset to shift the initial sample playback speed. 100% in the middle and is summed with v/oct and incoming MIDI notes (in case they set to non fixed receiving notes' names)	<i>pitch</i>  	 RED
Sample looping. Disable by setting the Parameter knob CCW and to enable - fully CW	<i>/loop</i>  	 DIM RED
Sample selection over available samples, up to 24 32 samples (since Firmware V3)	<i>sample</i>  	 FUCHSIA

Sample reverse - doesn't work anymore since v2+	—	 DIM FUCHSIA
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PARAMETERS SAVE

TO *SAVE* the position of the Parameter knobs in any mode, quickly run through the modes by short pressing the *MODE/BANK* button **3 TIMES**. The next time you power up the module those parameter edits you made will be remembered independently for each voice or bank you made that edits. **NOTE:** module will always power up on the last loaded sound bank with sample's decay as default editing mode on the startup.

SAMPLE BANKS

There are 8 banks of samples, each bank holds up to ~~24~~ 32 samples per voice arranged in 8 folders: */bank1/*, */bank2/*, ..., */bank8/*. To switch to the next bank, press and hold the **MODE** button (6) for 1 second. Audio files must be 8, 16 ~~or 24~~ bit PCM WAVE files and can be of any (arbitrary) sample rate up to 96kHz. Each bank folder has two folders inside: */voice1/* and */voice2/*. The samples are sorted in those folders by the module alphabetically and if we have more than ~~24~~ 32 samples in the voice folder, only the first ~~24~~ 32 samples could be selected.

You can see which bank is selected by the color and number of blinks of the LED. The module will always power up on the last loaded sound bank blinking its number.

BANK №	M/MIDI/MK2 version	MK1 version
BANK 1	<i>banks 1-4 • • • • •</i>  x1 	
BANK 2	<i>banks 1-4 • • • • •</i>  x2 	 
BANK 3	<i>banks 1-4 • • • • •</i>  x3 	  
BANK 4	<i>banks 1-4 • • • • •</i>  x4 	   
BANK 5	  x1 <i>banks 5-8 • • • • •</i>	
BANK 6	  x2 <i>banks 5-8 • • • • •</i>	 
BANK 7	  x3 <i>banks 5-8 • • • • •</i>	  
BANK 8	  x4 <i>banks 5-8 • • • • •</i>	   

For example *BANK 1* will be shown by a single blink with the upper **white** LED in *M/MIDI/MK2* version or with **BLUE** color in *MK1* version, *BANK 2* will blink twice with upper **white** LED in *M/MIDI/MK2* version or twice with **BLUE** color in *MK1* version. *BANK 5* will blink once with lower **white** LED in *M/MIDI/MK2* version or with **RED** color in *MK1* version etc.

SETTINGS

Apart from the samples, the SD card contains configuration files in the */SETTINGS/* folder which are applied globally for every bank. These settings files are created automatically upon new firmware update and can be changed in the text editor. After you delete them, the module will create them again with default values. If you can't find those files, simply update the latest firmware and the module will create them on the next power up. Settings with MIDI names in the files are related only for the *M/MIDI/MK2* version and are not relevant in the *MK1* version.

- */settings/pitch_1.txt* and *pitch_2.txt* set the tuning stretch in case you wish to calibrate each of the 1v/oct Pitch CV inputs. Values range: +/-0.5
- */settings/pitch_offset1.txt* and *pitch_offset2.txt* set the pitch offset value for each voice, providing additional control for 1v/oct calibration. This value needs to make the sample playback at 100% speed when no Pitch CV is applied and the Pitch Parameter knob is set to noon position. This value is created after an update or after deleting these files from the SD card. Make sure no cable is patched to the 1v/oct input during the update so that the module can detect and apply those offsets correctly. Values range: +/-0.5
- */settings/delay_1.txt* and *delay_2.txt* value in the files sets the trigger delay amount in milliseconds. This delay is needed so the module will be able to change the sample under CV at the same time as the new trigger arrives at the input (thus the sample fires with the

delay so the sample has time to be properly switched). Without that delay the previous sample will be fired first and the new on the next trigger. The average delay needed to sync the samples start in the time with your sequencer is around 20 mSec.

The default value is 0 which corresponds to 0 mSec. Max. value is 1000 mSec (1 second)

- **/settings/midi_ch1.txt** and **midi_ch2.txt** value in the files set the corresponding receiving MIDI channels for voice 1 and 2: **1 to 16**. Value **0** will set the *OMNI* mode - i.e. reception from *any* MIDI channel. Default values are: MIDI channel 1 on voice 1 and MIDI channel 2 on voice 2 and only one number 0 to 16 is allowed in each of those files.
- **/settings/midi_fixednote1.txt** and **midi_fixednote2.txt** set the MIDI notes filter so the voice 1 or two could react only on single, certain MIDI note (e.g. **C3**, **F#2**, etc.) with its 100% speed (but summed with 1v/oct or manual pitch if applied). Only one note from the 128 standard MIDI notes is allowed in each of those text files. Notes are labeled from **C-1** (number 0), **C#-1** (number 2), ..., up to **G9** (number 127). That is useful when using the module for triggering a certain drum sample over MIDI. Value **0** written in the file will disable that notes filter and corresponding voice will be reacting to all MIDI notes chromatically with C3 corresponding to standard 100% playback speed. Value **1** will disable chromatic playback - i.e. the voice will be triggered from any MIDI note but played at its 100% speed (summed with 1v/oct or manual pitch if applied).
- **/settings/midi_velocity1.txt** and **midi_velocity2.txt** set MIDI *NOTE-ON' VELOCITY* destination for the appropriate voice. Only one letter: **A** or **S** is allowed in each of those text files.
 - **A** - MIDI note's velocity will be applied to **amplitude** (volume) from 1 (very low volume) to 127 (full 100% gain). The final amplitude of the voice can be adjusted in the volume [MODE](#) parameter
 - **S** - velocity will be applied to select the **sample**. The expected velocity range 1 to 127 is divided to 32 zones

which correspond to a rough 4 values per samples: velocity 1 to 4 fires sample #1, 4 to 8 fires sample #2 etc.

NOTE: Velocity value of **0** will not launch sample in the voice

SAMPLES – LICENSE AGREEMENT

All the samples included in the factory SD card that come with the module as well as samples from the Endorphin.es Sample Library (<https://www.endorphin.es/sample-library>) are the property of ENDORPHIN.ES and are licensed to the end-user on a non-exclusive, no time limited, worldwide basis as follows:

- You are allowed to use any of those samples in any of commercial artist activities such as public performance, music recording, films, video production, streaming, radio/TV broadcasting.
- You are allowed to modify the sounds, use it in your tracks and release it anywhere without permission and no need to give credits to the author.
- You are not allowed to transfer that license to any third party as well as copy, duplicate and resell those files.
- Upon using / downloading our samples, you accept the above terms, violation of which is subject to liability under law.

FACTORY SOUND BANKS

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- You are allowed to use any of those samples in any of commercial artist activities such as public performance, music recording, films, video production, streaming, radio/TV broadcasting.
- You are allowed to modify the sounds, use it in your tracks and release it anywhere without permission and no need to give credits to the authors.
- You are not allowed to transfer that license to any third party as well as copy, duplicate and resell those files.
- Upon using / downloading our samples, you accept the above terms, violation of which is subject to liability under law.

TWO OF CUPS^{M/MIDI/MK2} complete sample library includes:

Nº	BANK NAME	VOICE 1	VOICE 2
1	JULIA BONDAR TECHNO KICKS/RUMBLE	Julia_Bondar_Kick 1.wav Julia_Bondar_Kick 2.wav Julia_Bondar_Kick 3.wav Julia_Bondar_Kick 4.wav Julia_Bondar_Kick 5.wav Julia_Bondar_Kick 6.wav	Julia_Bondar_Rumble 1.wav
2	JULIA BONDAR FACTORY SOUNDBANK FOR TWO OF CUPS	Julia_Bondar_atmo_1.wav Julia_Bondar_atmo_2.wav Julia_Bondar_atmo_3.wav Julia_Bondar_atmo_4.wav Julia_Bondar_atmo_5.wav Julia_Bondar_atmo_6.wav Julia_Bondar_bang_1.wav Julia_Bondar_bang_2.wav Julia_Bondar_bang_3.wav Julia_Bondar_bass_1.wav Julia_Bondar_bass_2.wav Julia_Bondar_bass_growl.wav Julia_Bondar_bass_sub.wav Julia_Bondar_brass_1.wav Julia_Bondar_brass_2.wav Julia_Bondar_brass_3.wav Julia_Bondar_brass_4.wav Julia_Bondar_brass_5.wav Julia_Bondar_drop_1.wav Julia_Bondar_drop_2.wav Julia_Bondar_fx_crackles.wav Julia_Bondar_fx_impact_1.wav Julia_Bondar_fx_impact_2.wav Julia_Bondar_fx_impact_3.wav Julia_Bondar_fx_impact_4.wav Julia_Bondar_piano_1.wav Julia_Bondar_piano_2.wav Julia_Bondar_piano_3.wav Julia_Bondar_siren_1.wav Julia_Bondar_siren_2.wav Julia_Bondar_snare.wav Julia_Bondar_vox.wav	
3	NICOLAS BOUGAÏEFF FACTORY SOUNDBANK FOR THE QUEEN OF PENTACLES	Nicolas_Bougaieff_Act Of God1.wav Nicolas_Bougaieff_Act Of God2.wav Nicolas_Bougaieff_Act Of God3.wav Nicolas_Bougaieff_Act Of God4.wav Nicolas_Bougaieff_Blue Neon1.wav Nicolas_Bougaieff_Blue Neon2.wav Nicolas_Bougaieff_Blue Neon3.wav Nicolas_Bougaieff_Blue Neon4.wav Nicolas_Bougaieff_Das Licht1.wav Nicolas_Bougaieff_Das Licht2.wav Nicolas_Bougaieff_Das Licht3.wav Nicolas_Bougaieff_Das Licht4.wav Nicolas_Bougaieff_Golden Oldies1.wav Nicolas_Bougaieff_Golden Oldies2.wav Nicolas_Bougaieff_Golden Oldies3.wav Nicolas_Bougaieff_Golden Oldies4.wav Nicolas_Bougaieff_Megalith1.wav Nicolas_Bougaieff_Megalith2.wav Nicolas_Bougaieff_Megalith3.wav Nicolas_Bougaieff_Megalith4.wav Nicolas_Bougaieff_Spirals1.wav Nicolas_Bougaieff_Spirals2.wav Nicolas_Bougaieff_Spirals3.wav Nicolas_Bougaieff_Spirals4.wav Nicolas_Bougaieff_Tikkun Olam1.wav Nicolas_Bougaieff_Tikkun Olam2.wav Nicolas_Bougaieff_Tikkun Olam3.wav Nicolas_Bougaieff_Tikkun Olam4.wav	

		Nicolas_Bougaieff_World1.wav Nicolas_Bougaieff_World2.wav Nicolas_Bougaieff_World3.wav Nicolas_Bougaieff_World4.wav
4	OVERMONO SOUNDBANK FOR THE QUEEN OF PENTACLES / TWO OF CUPS	Overmono_808BD.wav Overmono_808MS20 - BD2.wav Overmono_808MS20 - CLAVE1.wav Overmono_808MS20 - CLOSEDHAT.wav Overmono_808MS20 - COWBELL.wav Overmono_808MS20 - HIGHTOM.wav Overmono_808MS20 - MARACAS.wav Overmono_808MS20 - MIDTOM.wav Overmono_808MS20 - OPENHAT.wav Overmono_808MS20 - RIDE1.wav Overmono_808MS20 - SNARE1.wav Overmono_BD1.wav Overmono_BREAK1.wav Overmono_FX1.wav Overmono_LOOP1.wav Overmono_PAD1.wav Overmono_PERC1.wav Overmono_PERC3.wav Overmono_Performer Drone 2.wav Overmono_Perfourmer Drone 1.wav Overmono_Perfourmer Stab 1.wav Overmono_Perfourmer Stab 2.wav Overmono_Perfourmer Stab 3.wav Overmono_RIDE2.wav
5	NERO BELLUM SOUNDBANK FOR THE QUEEN OF PENTACLES	NeroBellum_Chromium I 1.wav NeroBellum_Chromium I 2.wav NeroBellum_Chromium I 3.wav NeroBellum_Chromium I 4.wav NeroBellum_Chromium II 1.wav NeroBellum_Chromium II 2.wav NeroBellum_Chromium II 3.wav NeroBellum_Chromium II 4.wav NeroBellum_Chromium III 1.wav NeroBellum_Chromium III 2.wav NeroBellum_Chromium III 3.wav NeroBellum_Chromium III 4.wav NeroBellum_Echo Location 1.wav NeroBellum_Echo Location 2.wav NeroBellum_Echo Location 3.wav NeroBellum_Echo Location 4.wav NeroBellum_Elegy 1.wav NeroBellum_Elegy 2.wav NeroBellum_Elegy 3.wav NeroBellum_Elegy 4.wav NeroBellum_Polycarbonate 1.wav NeroBellum_Polycarbonate 2.wav NeroBellum_Polycarbonate 3.wav NeroBellum_Polycarbonate 4.wav NeroBellum_Spectra 1.wav NeroBellum_Spectra 2.wav NeroBellum_Spectra 3.wav NeroBellum_Spectra 4.wav NeroBellum_Tympana Infernum 1.wav NeroBellum_Tympana Infernum 2.wav NeroBellum_Tympana Infernum 3.wav NeroBellum_Tympana Infernum 4.wav
6	MAMAN KÜSTERS SOUNDBANK FOR THE QUEEN OF PENTACLES	Maman_Kuesters_3h30 Kit 1.wav Maman_Kuesters_3h30 Kit 2.wav Maman_Kuesters_3h30 Kit 3.wav Maman_Kuesters_3h30 Kit 4.wav Maman_Kuesters_Bohm Kit 1.wav Maman_Kuesters_Bohm Kit 2.wav Maman_Kuesters_Bohm Kit 3.wav Maman_Kuesters_Bohm Kit 4.wav Maman_Kuesters_Freizh Kit 1.wav Maman_Kuesters_Freizh Kit 2.wav Maman_Kuesters_Freizh Kit 3.wav Maman_Kuesters_Freizh Kit 4.wav Maman_Kuesters_Gonzo Kit 1.wav Maman_Kuesters_Gonzo Kit 2.wav Maman_Kuesters_Gonzo Kit 3.wav Maman_Kuesters_Gonzo Kit 4.wav Maman_Kuesters_Liebe Kit 1.wav Maman_Kuesters_Liebe Kit 2.wav Maman_Kuesters_Liebe Kit 3.wav Maman_Kuesters_Liebe Kit 4.wav Maman_Kuesters_MK808 Kit I 1.wav Maman_Kuesters_MK808 Kit I 2.wav Maman_Kuesters_MK808 Kit I 3.wav Maman_Kuesters_MK808 Kit I 4.wav Maman_Kuesters_MK808 Kit II 1.wav Maman_Kuesters_MK808 Kit II 2.wav Maman_Kuesters_MK808 Kit II 3.wav Maman_Kuesters_MK808 Kit II 4.wav Maman_Kuesters_Preis Kit 1.wav Maman_Kuesters_Preis Kit 2.wav Maman_Kuesters_Preis Kit 3.wav Maman_Kuesters_Preis Kit 4.wav
7	BLCK_NOIR SAMPLED BY ENDORPHIN.ES	BlckNoir_closed_hat_1.wav BlckNoir_closed_hat_2.wav BlckNoir_cymbal.wav BlckNoir_kick_1.wav BlckNoir_kick_2.wav BlckNoir_metalbeat_1.wav BlckNoir_metalbeat_2.wav BlckNoir_metalbeat_3.wav BlckNoir_open_hat.wav BlckNoir_snare_1.wav BlckNoir_snare_2.wav BlckNoir_snare_3.wav BlckNoir_snare_4.wav BlckNoir_snare_5.wav BlckNoir_tambourine_1.wav BlckNoir_tambourine_2.wav
8	QUEEN OF PENTACLES SAMPLED BY ENDORPHIN.ES	QueenOfPentacles_clap_1.wav QueenOfPentacles_clap_2.wav QueenOfPentacles_clap_3.wav QueenOfPentacles_clap_4.wav QueenOfPentacles_closed-hat_1.wav QueenOfPentacles_cymbal.wav QueenOfPentacles_kick_1.wav QueenOfPentacles_kick_2.wav QueenOfPentacles_kick_3.wav QueenOfPentacles_kick_4.wav QueenOfPentacles_kick_5.wav QueenOfPentacles_open-hat_1.wav QueenOfPentacles_open-hat_2.wav QueenOfPentacles_snare_1.wav QueenOfPentacles_snare_2.wav QueenOfPentacles_snare_3.wav

NOTE: in the banks 2 to 8 (except the 1st) samples in voice1 and voice2 folders are duplicated

FIRMWARE UPDATE

Download latest firmware for TWO OF CUPS here:

<https://www.endorphin.es/modules/p/two-of-cups-midi>

<https://www.endorphin.es/modules/p/two-of-cups>

- Power OFF your modular system.
- Eject the microSD card from the module. Insert it into the computer.
- Unpack the downloaded archive and place the toc-firmware.hex file into the root folder of the microSD card. Don't rename the file in any other name. Put the card back into the module and turn ON the power of your modular system.
- Both LEDs will light up (of fuchsia color in case MK1 version) and you will hear an ascending tone from VOICE 1 OUT. After approximately 10 seconds the module will reboot with the new firmware installed
- Enjoy the new features.

CREDITS

**ENDORPHIN.ES® – TWO OF CUPS M/MIDI / TWO OF CUPS
FIRMWARE VERSION V.3
COLLECTION AUTUMN/WINTER 2026**

Module idea, hardware design, direction and manual by Andreas Zhukovsky

Programming by Vitaly (a.k.a. embedder)

Endorphin.es are made in Barcelona province of Spain

Follow, like, post and tag us at Instagram: [@endorphin.es](https://www.instagram.com/endorphin.es)

COMPLIANCE

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes / modifications not approved by ENDORPHIN.ES doing business as Furth Barcelona, S.L. could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

CE

This device meets the requirements of the following standards:

EMC: 2014/30/EU EN55032: 2015 ; EN 55103-2: 2009 (EN55024) ; EN61000-3-2; EN 61000-3-3

Low Voltage: 2014/35/EU EN 60065: 2002+A1: 2006+A11: 2008+A2 :2010+A12: 2011

RoHS: 2011/65/EU

WEEE: 2012/19/EU