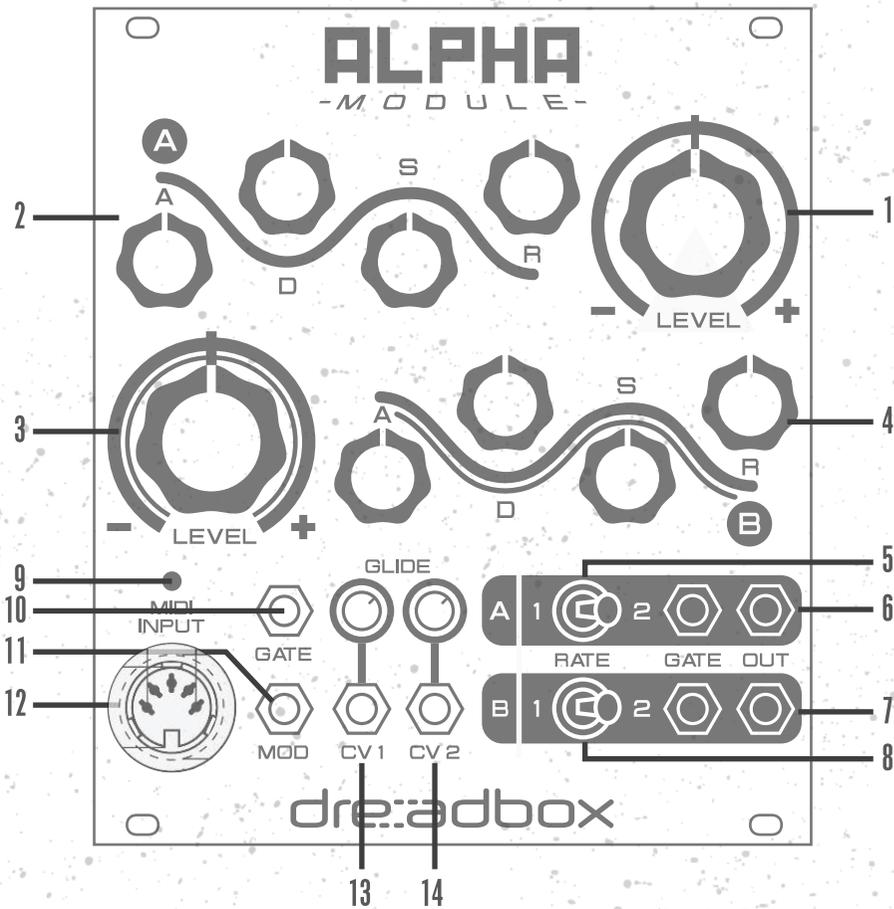# ALPHA
-MODULE-

dre:adbox

Alpha is a 22HP width eurorack module.

It is equipped with a midi to paraphony converter, followed by a dedicated dual envelope genarator.

// Envelope A \\

1. Level: Mid position for null, left for negative, right for positive.

2. A-Attack
    D-Decay
    S-Sustain
    R-Release

5. Rate switch: 1-slow 2-fast

6. Gate- insert an external gate source. Local gate is deactivated

   Out - envelope's main output

// MIDI interface \\

9. Gate indicator

10. Gate output

11. MODulation wheel out

12. Midi DIN cable input

13. CV-1- low note 1v/ocv output with its dedicted glide knob

14. CV-2- high note 1v/ocv output with its dedicted glide knob

// Envelope B \\

3. Level: Mid position for null, left for negative, right for positive.

4. A-Attack
    D-Decay
    S-Sustain
    R-Release

8. Rate switch: 1-slow 2-fast

7. Gate- instert an external gate source. Local gate is deactivated

   Out - envelope's main output

★ *Specifications* ★

Envelope outputs: -8V up to 8V depending on Level's position

Envelope rates:
 Slow: A-5ms / 20sec, D-10ms / 25sec, R-10ms / 25sec
 Fast: A-2ms / 3sec, D-5ms /3,5sec , R-5ms / 6sec

Gate inputs: Activation from 1V up to 12V

Gate output : 0-5V

Mod wheel : 0-5V

CV1, CV2 : 0-5V (5 octave range)
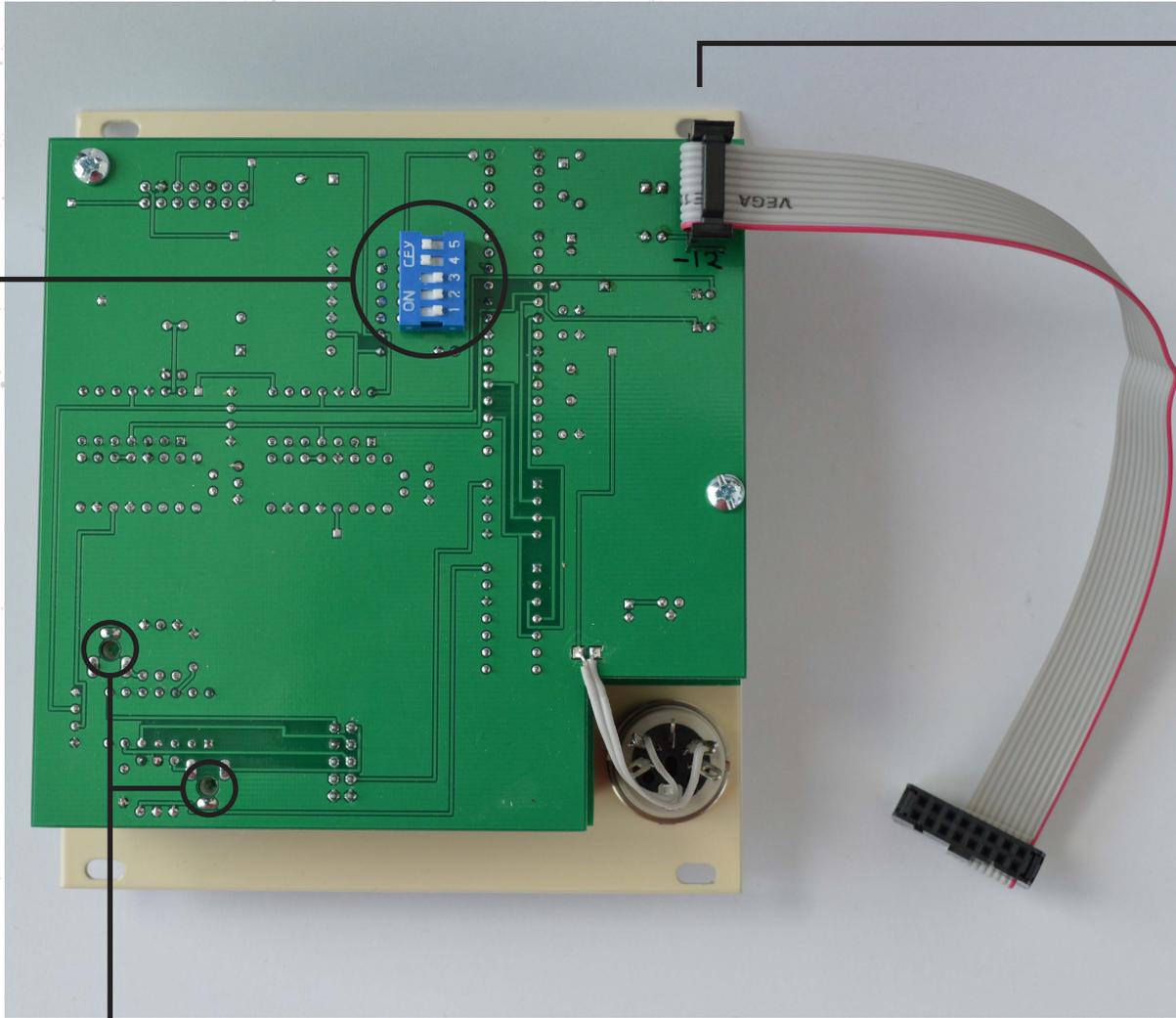
22 HP (following Doepfer standards)

100%
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devices

Paraphony // - 1 key pressed : both CV-1 and CV-2 will play the pressed note
- 2 keys pressed : CV-1 will play the low note, CV-2 will play the high note
- 3 or more keys pressed: CV-1 will play the low note, CV-2 will play the 2nd lowest note and all the other notes will be ignored.

Midi interface // Alpha's Midi interface will allow the following actions:
- Note(s) on / off. Gate out patch, converts midi gate to analog gate
- Pitch tracking up to 5 octaves (0-5V). The pitch is converted to 1v/ocv which can be accessed via the CV-1 and CV-2 outputs.
- 2 voice paraphony or Unison mode. On Alpha's back side there is a DIP switch. If switch 4 is OFF = Unison, On = paraphony

- Keyboard retrigger on the ADSR envelope's. If the DIP switch 5 is OFF = no retrigger, On = retrigger
- Pitch wheel for 1 whole tone up/down. This is also transmitted on the CV1 -CV2 outputs
- Modulation wheel 0- 5v

Midi channel selection OMNI or 2-7.	All off -> OMNI
The midi channel can be changed	2 on -> MIDI ch 2
by a DIP switch located	1,2 on -> MIDI ch 3
on the back side of Alpha.	3 on -> MIDI ch 4
The available switches are 1,2,3	1,3 on -> MIDI ch 5
	2,3 on -> MIDI ch 6
	All on -> MIDI ch 7

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Make sure you always plug
the ribbon as shown.
The red stripe indicates -12V

5 position DIP switch

All off -> OMNI
2 on   -> MIDI ch 2
1,2 on -> MIDI ch 3
3 on   -> MIDI ch 4
1,3 on -> MIDI ch 5
2,3 on -> MIDI ch 6
All on -> MIDI ch 7

4 off -> No retrigger
4 on -> Retrigger

5 off -> Unison mode
5 on -> Duophonic mode

Trim for 1V/oct for CV1 and CV2 outputs, if you
encounter any problems with your pitch.

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