

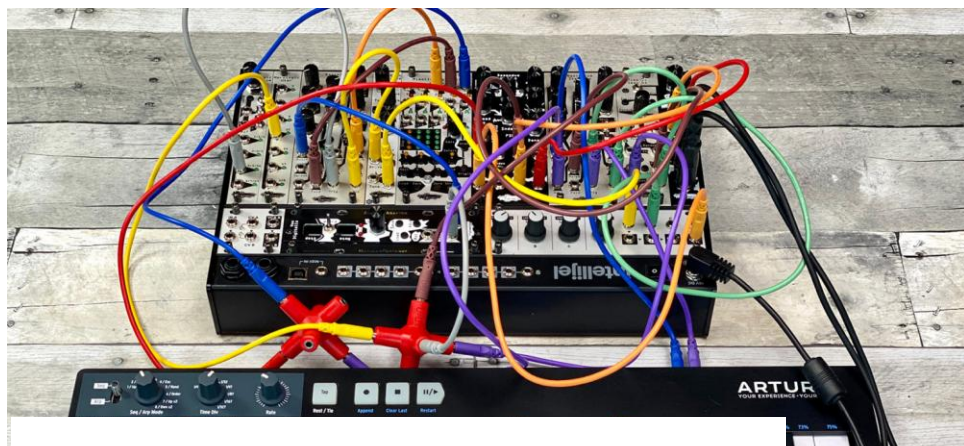
# PCB



# SYNTHS



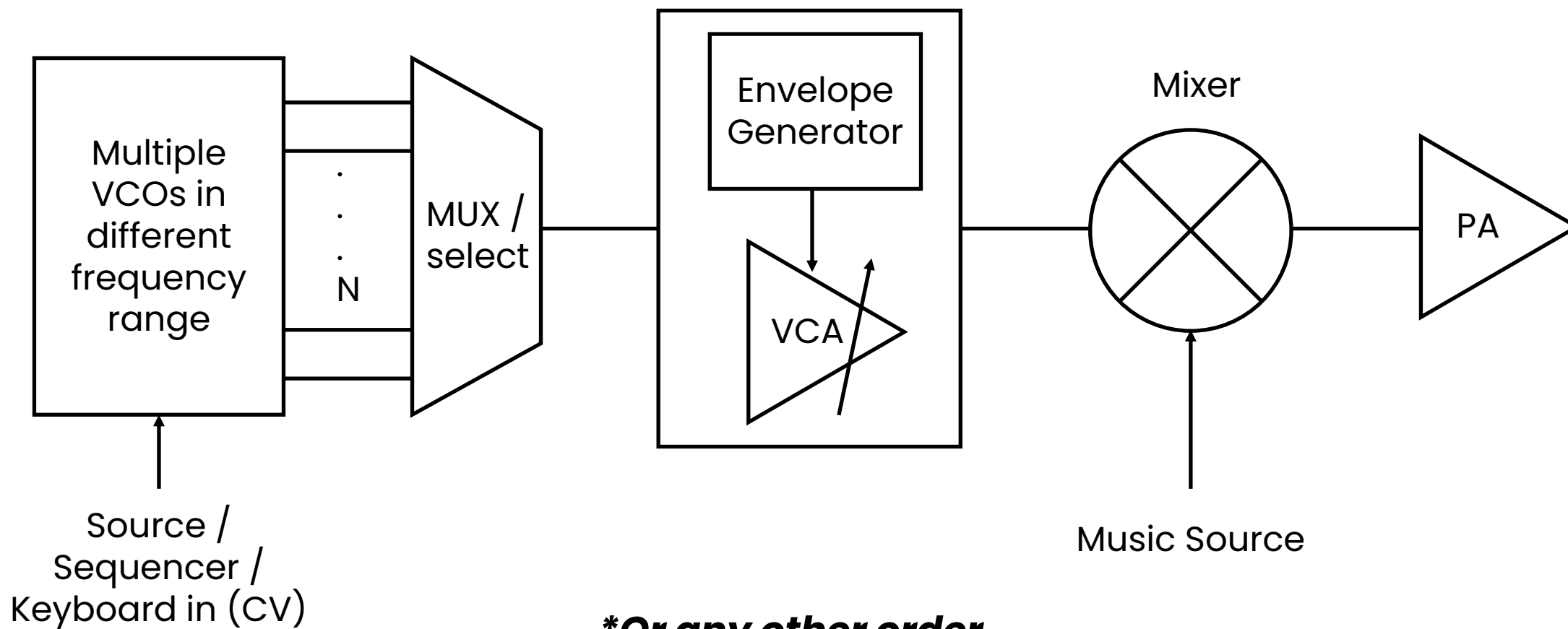
# WHAT IS A MODULAR SYNTHESISER?



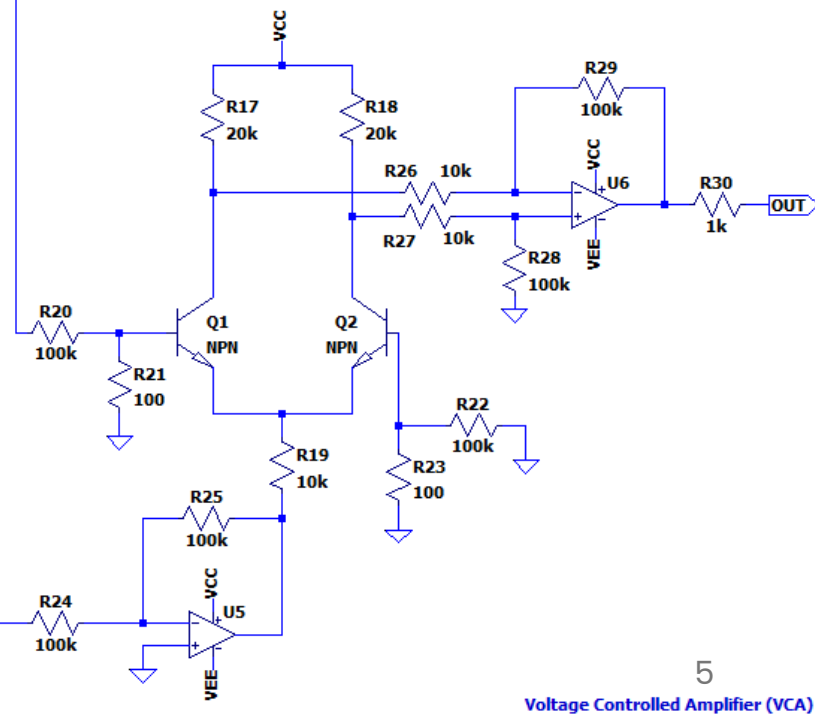
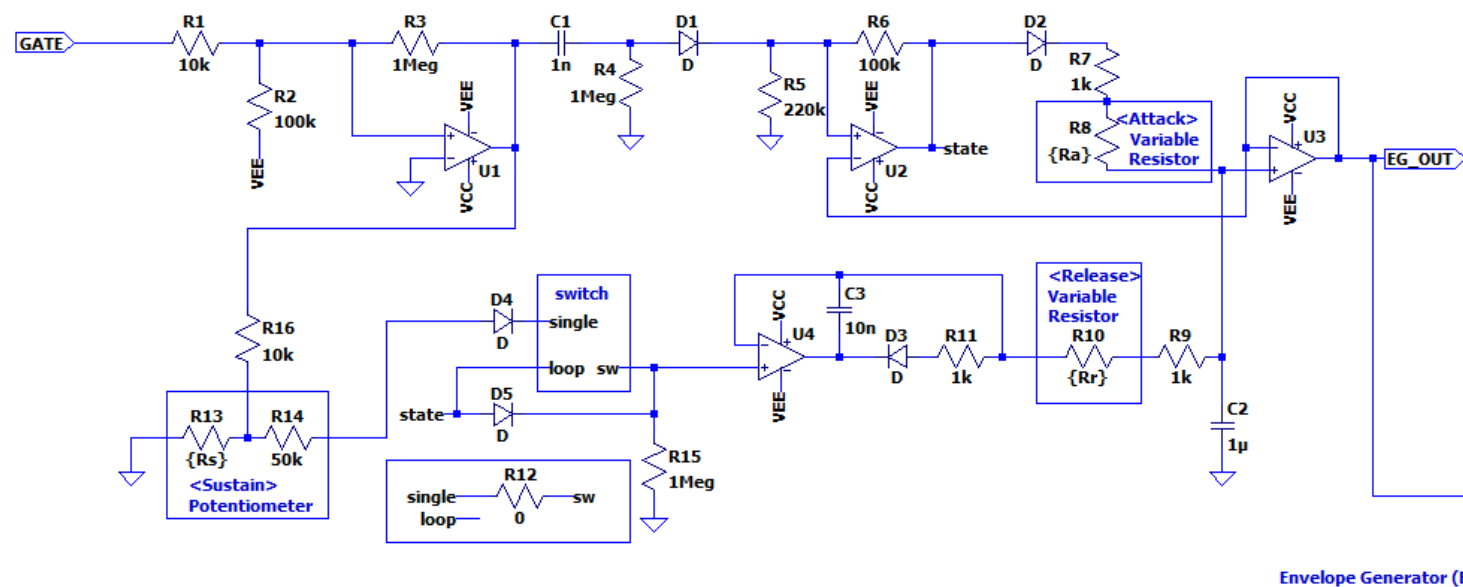
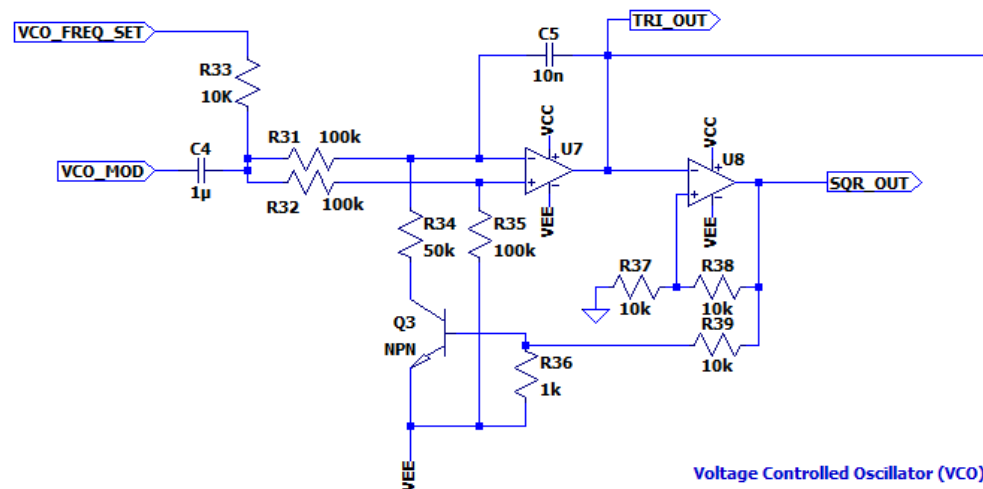
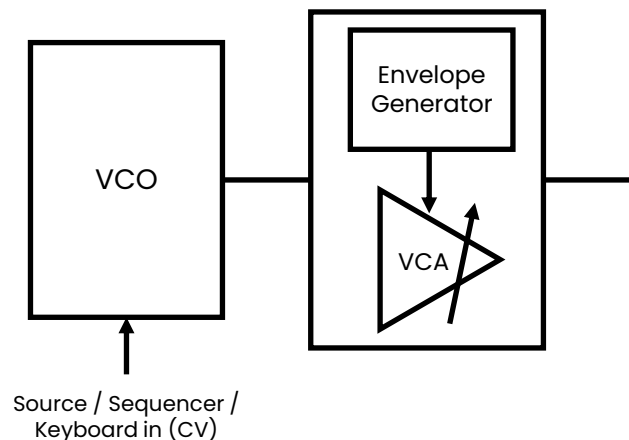
## (PROVISIONAL) TIMELINE

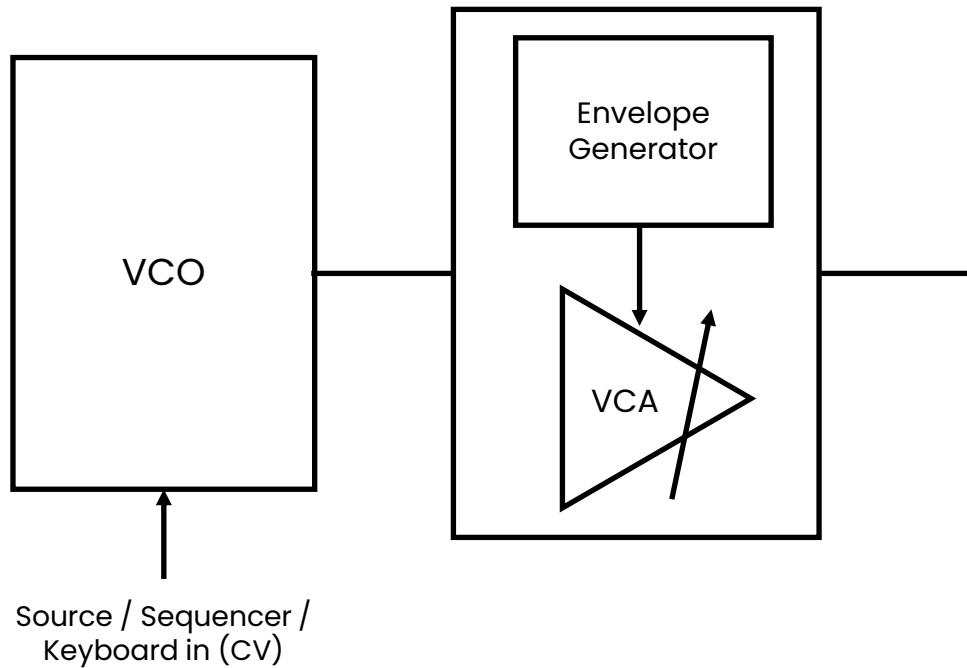
- **1<sup>st</sup> workshop (05/03/2025)**
  - Intro to project / synth system
  - Intro to the circuit building blocks
  - Intro to KiCAD and PCB design
- **2<sup>nd</sup> workshop (19/03/2025)**
  - Feedback & Design advice from last session
  - Select and start to design modules
- **3<sup>rd</sup> workshop (27/03/2025)**
  - Q&A and support
- **Submission Deadline (End of April – Mid May TBD)**
- **Final building blocks integration (End of May – Start of June TBD)**

# EXAMPLE SYSTEM TOPOLOGY

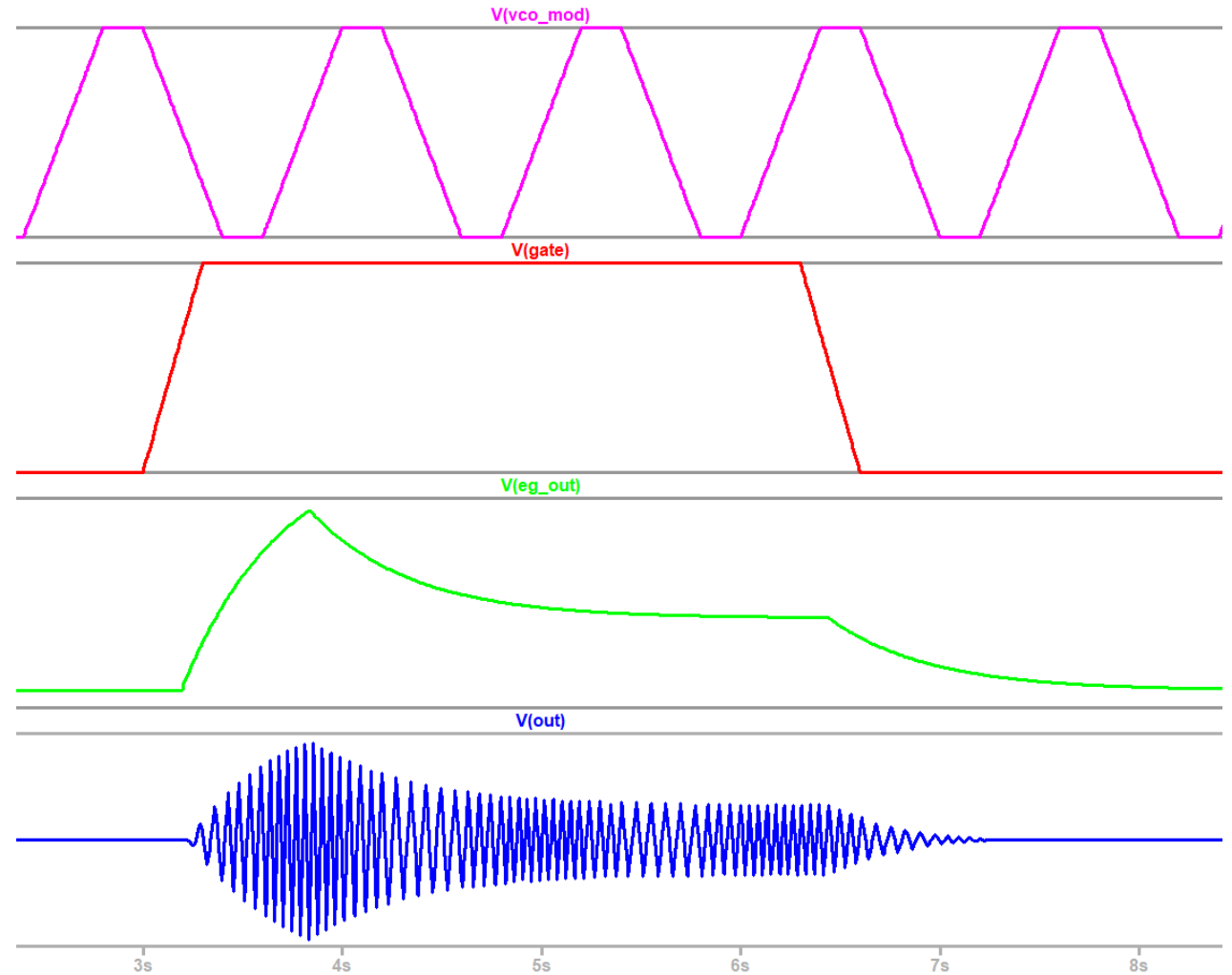


# Top-level overview





## Top-level waveform





## MODULES: What can we make?

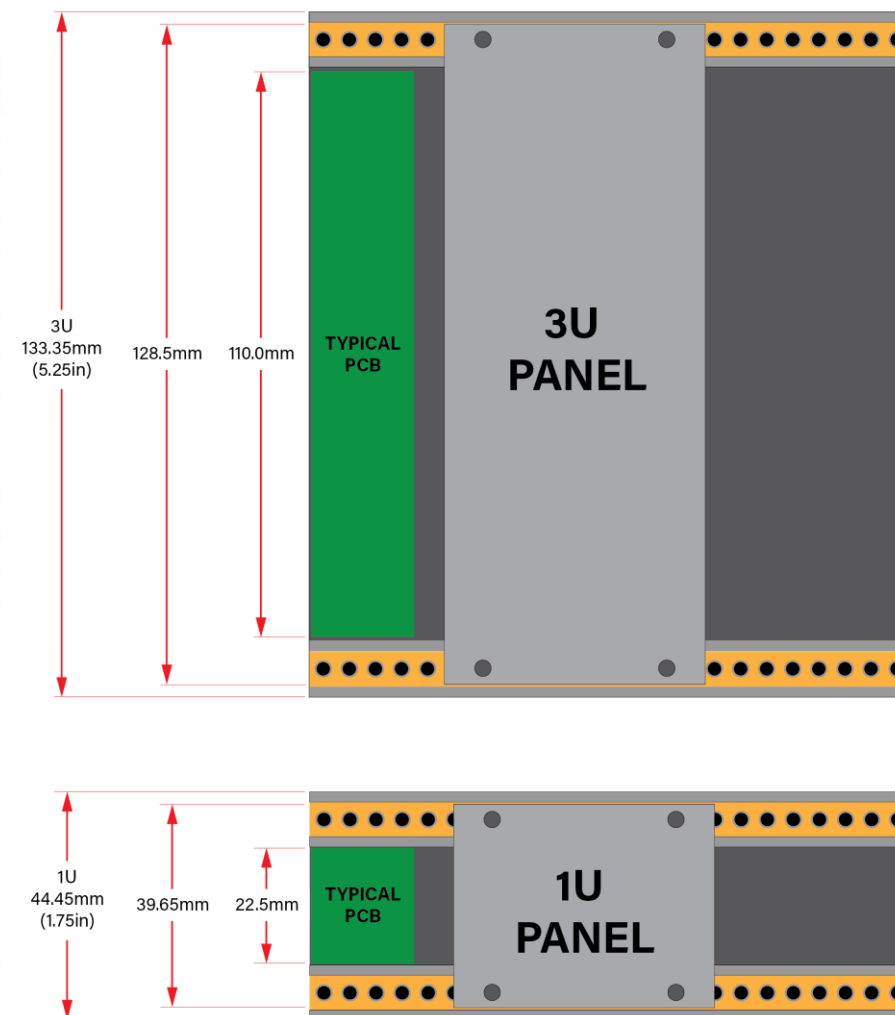
### Other Modules:

- Voltage Controlled Filters (VCF)
- Low Frequency Oscillators (LFO)
- Noise Generator
- Sample & Hold
- Resonator
- Reverb
- Drum Machine
- Compressor
- Distortion
- Delays
- Mixer/ Patch Board
- Diode Ladder
- Preamplifier
- Speaker Amplifier
- Headphone Amplifier

# EURORACK MODULES

Position of the mounting holes	Module width [HP]	calculated module width [mm] (= multiples of 5.08 mm)	actual module width [mm]
	1	5.08	5.00
	1.5	7.62	7.50
	2	10.16	9.80
	4	20.32	20.00
	6	30.48	30.00
	8	40.64	40.30
	10	50.80	50.50
	12	60.96	60.60
	14	71.12	70.80
	16	81.28	80.90
	18	91.44	91.30
	20	101.60	101.30
	21	106.68	106.30
	22	111.76	111.40
	28	142.24	141.90
	42	213.36	213.00

Table 1: Position of the mounting holes and front panel width in HP and mm





## When

22<sup>nd</sup> March 12:00–18:00

23<sup>rd</sup> March 11:00–17:00

## Where

Studio 9294, Hackney Wick, London  
92, 94 Wallis Rd, London E9 5LN



# LONDON SYNTH EXPO 2025

