

The diagram illustrates the internal wiring for 12 different Jack inputs. Each Jack is connected to a specific I/O pin, which then branches out to various functional blocks:

- Jack 1**: Connected to I/O 5, leading to PA1 / ADC1.
- Jack 2**: Connected to I/O 6, leading to PA0 / ADC0.
- Jack 3**: Connected to Jumper A, which splits to I/O 7 (leading to PA5 / ADC5 / DAC2) and DAC2 amplifier (pins 3 and 1).
- Jack 4**: Connected to Jumper C, which splits to I/O 8 (leading to PA4 / ADC4 / DAC1) and DAC1 amplifier (pins 3 and 1).
- Jack 5**: Connected to Jumper E, which splits to PB12 (digital input only) and Audio In Left (pin 1).
- Jack 6**: Connected to Jumper F, which splits to PB13 (digital input only) and Audio In Right (pin 1).
- Jack 7**: Connected to Jumper G, which splits to PB14 (digital output only) and Audio Out Left (pin 1).
- Jack 8**: Connected to Jumper H, which splits to PB15 (digital output only) and Audio Out Right (pin 1).
- Jack 9**: Connected to I/O 1, leading to Jumper I, which splits to PD11 (digital input/output only) and Knob 5 (pins 1 and 3), which then connects to Jumper K (PA7 / ADC7).
- Jack 10**: Connected to I/O 2, leading to Jumper J, which splits to PD12 (digital input/output only) and Knob 6 (pins 1 and 3), which then connects to Jumper L (PA6 / ADC6).
- Jack 11**: Connected to I/O 3, leading to Jumper M, which splits to PA3 / ADC3 and Knob 7 (pins 1 and 3).
- Jack 12**: Connected to I/O 4, leading to Jumper O, which splits to 16-bit_ADC (pin 1) and Jumper N (pins 1 and 3), which then connects to PA2 / ADC2.

Snyderphonics
STM32H7 Eurorack Modular Experimentation
Panel Board Rev1 / Brain Board Rev 3
by Jeff Snyder
November 2020

Signal Path Chart

Knob 1	————	PB1 / ADC9
Knob 2	————	PB0 / ADC8
Knob 3	————	PC5 / ADC15
Knob 4	————	PC4 / ADC14
Switch 1	————	PD13
Switch 2	————	PC6
Switch 3	————	PC7
Switch 4	————	PG6
LED R	————	PG7 / HRTIM E2
LED G	————	PA8 / HRTIM B2
LED B	————	PA9 / HRTIM C1
LED 1	————	PA10 / HRTIM C2
LED 2	————	PA11 / HRTIM D1
LED 3	————	PA12 / HRTIM D2