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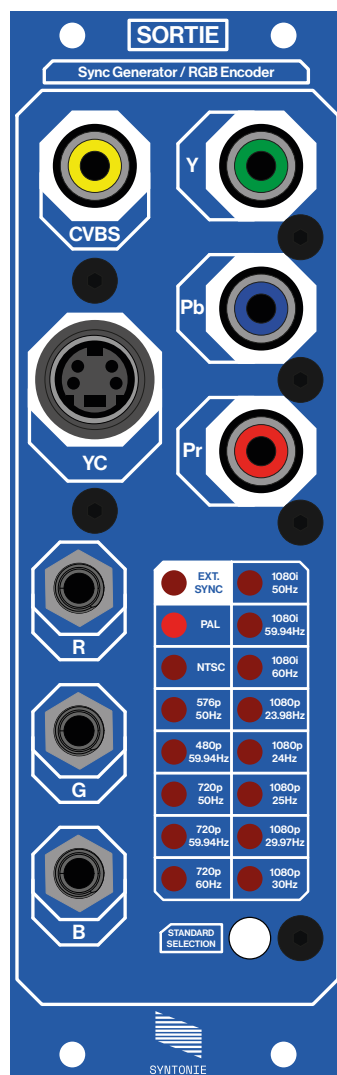
# Sortie

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## **Sync Generator / RGB Encoder -** User documentation



SYNTONIE



Sortie is sync generator and RGB encoder, supporting SD and HD formats. It takes 1V RGB inputs and encodes them into Composite, S-Video and Component video signals, as well as providing synchronisation to the modular system.

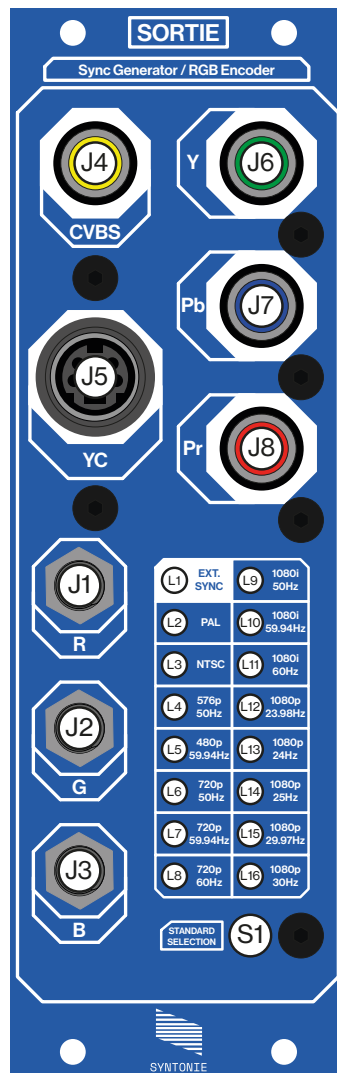
### Specifications

- 8HP
- 130 mA +12V (16pin or DC)
- 0 mA -12V
- 0 mA +5V
- 42mm depth

**Special thanks to: LZX Team** for the Cadet series of modules, which have been the starting point to develop this module.

**Eric Schlappi** for the help with FPGA/Verilog for the design of the sync generator.

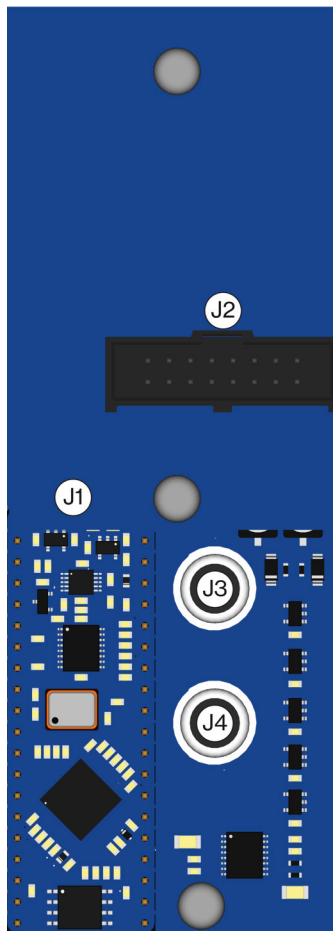
**Lorenzo Ferronato** for the documentation design // And of course, **everyone who has supported Syntonie until now & those who will support it in the future.**



- (J1)** Red input: 0-1V, 100kΩ, minijack
- (J2)** Green input: 0-1V, 100kΩ, minijack
- (J3)** Blue input: 0-1V, 100kΩ, minijack
- (J4)** Composite output: 0-700mV, 75Ω, RCA (PAL/NTSC only)
- (J5)** S-video output: 0-700mV, 75Ω, Mini-DIN4 (PAL/NTSC only)
- (J6)** Component Y output: 0-700mV, 75Ω, RCA
- (J7)** Component Pb output: 0-700mV, 75Ω, RCA
- (J8)** Component Pr output: 0-700mV, 75Ω, RCA
- (S1)** Standard selection switch: press for 0.5s to select the next standard, longer press cycle through standards
- (L1)** External Sync LED: lights up steadily once a valid external video signal is present at the rear sync input
- (L2-L16)** Standard LEDs: shows the selected standard or external video signal standard (if present)

**Notes:** when used with an external video source, Sortie requires a stable video signal. If the EXT. SYNC LED is flashing and/or standard LEDs lights up erratically, this may indicate that the external video source isn't in-spec. This could be the case with glitch devices, VCR, old video game consoles, etc...

240p59.94 and 288p50 standards cannot be manually selected, though Sortie can sync to them as well. In that case both the NTSC & 480p59.94 LEDs will light up for 240p59.94, and both the PAL & 576p50 LEDs will light up for 288p50.



(J1) DC barrel power input: +12VDC, center positive, 5.5mm\*2.1mm

(J2) Eurorack power input: +12VDC, IDC 16pin

(J3) Sync input: 0-700mV, 75Ω, RCA

(J4) Sync output: 0-700mV, 75Ω, RCA

#### Notes:

- An external video signal is provided by an input module (**Entrée**, **Stable**, or **Détail**) through it's rear RCA output and connect-  
ed to Sortie rear RCA sync input (J3). Sortie will automatically detect and switch to the external video standard, lighting up both  
the EXT. SYNC LED and the corresponding standard LED.

- All other modules that requires sync like signal generators (**Rampes**) will be connected to Sortie rear RCA sync output (J4).

