

## Switch 8 to 1

Version e 2022-03-18



This module switches eight input signals to one output jack. Selection is done either by GATE signals or a CV voltage.

A TRIG out pulse occurs when a valid selection changes. (Outputs 1 to 8)

With disabled HOLD function the *signal out* jack delivers same voltage as is received at selected *in* jack, as long as selection is active. When selection gets inactive, output delivers no (zero) voltage.

When HOLD function is enabled, *signal out* voltage stays at that value, that was in the moment at the selected *in* jack, when selection became inactive. So **Switch 8 to 1** can be used as eight channel sample & hold device.



If **ENABLE** is toggled on, input selection is done by **cv in**, else by **gate** inputs.

A voltage at this jack controls input selection, if **ENABLE** button is toggled.

$cv < 0.5\text{ V}$	no input selected
$0.5\text{ V} \leq cv < 1.0\text{ V}$	input 1 selected
$1.0\text{ V} \leq cv < 1.5\text{ V}$	input 2 selected
:	
$4.0\text{ V} \leq cv$	input 8 selected



An ON voltage ( $>2.5\text{ V}$ ) selects corresponding **in n**.

If more than one gate jacks get an ON voltage, only the input with the highest number will be selected.



LED indicates input selection.



Input jack for any signal voltage. ( $-10$  to  $+10\text{ V}$ ).



a) Equals **signal in** voltage of selected signal input, otherwise  $0\text{ V}$ .

b) When **HOLD** is active: static voltage, that was sent to the last selected input jack in the moment, when input selection disappeared.



Toggled button enables hold function.

An ON voltage ( $>2.5\text{ V}$ ) enables hold function.



Sends a  $1\text{ msec}$  pulse ( $5.0\text{ V}$ ) when an output selection changes. There will be no pulse, when no output gets selected.