u1P

PROB IN OUT A

MODE OUT B

The u1P is a Bernoulli gate. Based on the probability set by the potentiometer, it routes a trigger signal sensed at the input to either of its two outputs. Press the MODE button to alternate between updating the output at both rise/fall edges or only at rise edge. Press _and keep holding_ the MODE button to change modes: the potentiometer determines the selected mode (monitored by LED blinks). Change its position and then release the MODE button to change modes. Blinks/Modes depending on pot position:

= 1 / direct mode   = 2 / toggle mode   = 3 / single mode

MODE 1 - DIRECT

The position of the potentiometer determines the probability that the incoming input trigger is routed to either output A or output B.

100% chance output A.
0% chance output B.

50% chance output A.
50% chance output B.

0% chance output B.
100% chance output A.

MODE 2 - TOGGLE

The position of the potentiometer determines wether the module continues routing the trigger input to the same output as before or to the opposite output.

0% chance the trigger is routed to the other output.

50% chance the trigger is routed to the other output.

100% chance the trigger is routed to the other output.

MODE 3 - SINGLE

Being out A the main output, it will never route two consecutive triggers to it.
After a pulse is routed to A, the next one will always be forced to go to out B.
This mode has been implemented for more subtle modulations.

0% chance output A.
100% chance ouput B.

50% chance output A, next trig to output B.

100% chance output A, next trig to output B.