<u>nonlinearcircuits</u>

<u>Wangernumb</u>

Wangernumb is 3 modules in one...or 4. If you use the Track input, the phase lock loop acts as a frequency tracker. The VCO Range CV input and filter pot will determine how well, or more accurately, how poorly it will track. You also get 12 divisions of the tracking signal, right down to divide by 4096. If you use the Roulette input, it will generate semi-random selections of outputs when the input signal is high...or, depending upon how you drive it and look at the results, it is a burst generator and you can control the frequency of the bursts with the VCO CV input. If you use the Divide input, you have a 12 stage clock divider, down to 1/4096. In this case, you can use the PLL tracker section as a separate and independent VCO module and get it to generate squelchy, glitchy noises or as a tracker again.

Component	Quantity	<u>Notes</u>
100k pot	2	Tayda A-1848
3.5mm jack	17	Kobiconn style
3mm LED	12	
LL4148 diode	2	SOD-80
vactrol	1	any single vactrolDIY it
4046	1	CMOS, SOIC or Wide SOIC
4024	2	CMOS, SOIC
TL072	1	SOIC
BC847	13	NPN, SOT-23
eurorack 10 pin power connector	1	
100nF (104)	8	0805
4.7nF (4n7)	1	0805
1uF (105)	2	0805
10uF electro	3	thru-hole 2mm lead spacing
10Ω	2	thru-hole
1k	2	0805
2k2	2	0805 Can replace with 3k3 if you want.
3k3	12	0805
4k7	1	0805
6k8	12	0805
10k	4	0805
47k	2	0805
100k	5	0805

BOM



