














































adc















input	i	
minimum	m	
maximum	x	

bit1 ... bit12	b	
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































algoquencer

clock	c	
reset	r	
button1 ... button16	b	
length	l	
pattern	pt	
nextpattern	np	
prevpattern	pp	
reroll	rr	
clearpage	cp	
pitchlow	pl	
pitchhigh	ph	
pitchresolution	pre	
gatelength	gl	
lengthbutton	lb	
repeats	rp	
alternaterepeats	arp	
branches	bs	
mutebutton	mb	
unmutebutton	ub	
accentbutton	ab	
alternatebutton	alb	
alternatebars	aba	
accentlow	al	
accenthigh	ah	
activity	a	
variation	v	
dejavu	d	
morphs	m	
offbeats	ob	
distribution	di	
fills	f	
fillorder	fo	
rolls	rl	
rollcount	rc	
rollsteps	rs	
rollstartvelo	rsv	
pitch1 ... pitch16	p	
select	s	
selectat	sa	
preset	pr	
loadpreset	lp	
savepreset	sp	
clear	cl	
clearall	ca	

dontsave	dos	
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trigger	t	
gate	g	
pitch	p	
accent	ac	
led1 ... led16	l	
barled1 ... barled4	bl	
rollvelocity	rv	
startofbar	sb	
muteled	ml	
unmuteled	ul	
morphled	mol	
fillsled	fl	
branch	br	
lengthoutput	lo	


arpeggio

pitch	p	
range	ra	
clock	c	
reset	r	
pattern	pt	
direction	d	
pingpong	pp	
butterfly	by	
drop	dr	
octaves	oc	
startnote	sn	
autoreset	ar	
root	ro	
degree	dg	
select1	s1	
select3	s3	
select5	s5	
select7	s7	
select9	s9	
select11	s11	
select13	s13	
selectfill1	sf1	
selectfill2	sf2	
selectfill3	sf3	
selectfill4	sf4	
selectfill5	sf5	
harmonicshift	has	
noteshift	nos	
selectnoteshift	sns	
tuningmode	tm	
tuningpitch	tp	
transpose	tr	








output	o	
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bernoulli

input	i	
distribution	di	

















output1	o1	
output2	o2	

burst

rate	ra	
taptempo	tt	
hz		
trigger	t	
reset	r	
count	c	
skip	s	






output	o	
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button








button	b	
onvalue	ov	
offvalue	fv	
value1 ... value4	v	
doubleclickmode	dm	
longpresstime	lt	
states	st	
startvalue	sv	
select	s	
selectat	sa	
preset	pr	
loadpreset	lp	
savepreset	sp	
clear	cl	
clearall	ca	
dontsave	dos	

led	l	
output	o	
inverted	iv	
negated	n	
longpress	lop	
shortpress	shp	
















buttongroup

minactive	ma	
maxactive	xa	
longpresstime	lt	
button1 ... button32	b	
value1 ... value32	v	

startbutton	sb	
select	s	
selectat	sa	
preset	pr	
loadpreset	lp	
savepreset	sp	
clear	cl	
clearall	ca	
dontsave	dos	




led1 ... led32	l	
buttonoutput1 ... buttonoutput32	o	
output		
buttonpress	bp	
longpress	lop	
selectionchanged	sc	
extrapress	ep	


calibrator

input	i	
nudgeup	nu	
nudgedown	nd	
clearhere	ch	
nudgeamount	na	
tune0 ... tune8	t	
tunelowtail	tl	
tunehightail	th	
select	s	
selectat	sa	
preset	pr	
loadpreset	lp	
savepreset	sp	
clear	cl	
clearall	ca	
dontsave	dos	

output	o	
ledup	lu	
leddown	ld	
correction	c	
























case

case1 ... case16	c	
value1 ... value16	v	
else	e	

output	o	
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chord

pitch	p	
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spread	s	
inversion	iv	
trigger	t	
root	ro	
degree	dg	
select1	s1	
select3	s3	
select5	s5	
select7	s7	
select9	s9	
select11	s11	
select13	s13	
selectfill1	sf1	
selectfill2	sf2	
selectfill3	sf3	
selectfill4	sf4	
selectfill5	sf5	
harmonicshift	has	
noteshift	nos	
selectnoteshift	sns	
tuningmode	tm	
tuningpitch	tp	
transpose	tr	

output1 ... output4	o	
---------------------	---	---

clocktool

clock	c	
reset	r	
divide	d	
multiply	m	
dutycycle	dc	
gatelength	gl	
delay	dl	









output	o	
inputpitch	ip	
outputpitch	op	

compare

input	i	
compare	c	
ifgreater	g	
ifless	l	
ifequal	q	
else	e	
precision	pc	

output	o	
--------	---	---

contour

gate	g	
trigger	t	
retrigger	rt	
startfromzero	sz	
abortattack	aa	
loop	lo	
predelay	pd	
attack	a	
hold	h	

reset r   
length l   
tapespeed s   
loopswitch ls   
pause p   
overlay ov   
overdub od   
bypass b 

cvout co   
gateout go 

## dac

bit1 ... bit12 b   
minimum m   
maximum x 



output o 

## delay

delay dl   
cvin ci   
numberin ni   
gatein1 ... gatein8 gi   
clock c   
sample sm   
timewindow tw   
bypass b   
save sv   
load ld   
filenumber f 







cvout co   
numberout no   
gateout1 ... gateout8 go   
overflow ov 







## detune

input1 ... input8 i   
detune d   
tuningmode tm   
tuningpitch tp 

























output1 ... output8 o 

## droid

ledbrightness l   
maxslope1 ... maxslope8 s   
lpfilter1 ... lpfilter8 lf   
m4faderspeed m4f   
statusdump sd   
m4notchpower m4n 



calibrate c   
startcontrollerupgrade u   
startx7upgrade x7   
clear cl   
clearall ca   
uislowdown us 

## encoderbank

firstencoder e   
led1 ... led8 l   
startvalue sv   
notch no   
outputscale os   
outputoffset oo   
mode m   
smooth sm   
discrete d   
snapto sn   
snapforce sf   
sensivity se   
autozoom a   
color co   
negativecolor nc   
ledfill lf   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl   
clearall ca   
dontsave dos 

output1 ... output8 o   
button1 ... button8 b 


































## encoder

















































encoder e   
override or   
sharewithnext sw   
movementticks mv   
led l   
startvalue sv   
notch no   
outputscale os   
outputoffset oo   
mode m   
smooth sm   
discrete d   
snapto sn   
snapforce sf   
sensivity se   
autozoom a   
color co 

negativecolor nc   
ledfill lf   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl   
clearall ca   
dontsave dos 










output o   
button b   
moveddown md   
movedup mu   
valuechanged vc 

## encoquencer







zorder z   
nume4s n4   
ledpreview pv   
firstfader f   
numfaders n   
numsteps ns   
page p   
clock c   
taptempo tt   
reset r   
run ru   
composemode cm   
mute m   
cvbase cb   
cvrange cr   
invert iv   
quantize q   
cvnotches cn   
shiftsteps sh   
startstep ss   
endstep es   
form fo   
direction d   
pingpong pp   
pattern pt   
repeatshift rs   
ratchetshift ras   
accumulatorrange ac   
constantlength co   
autoreset ar   
metricsaver ms   
fadermode fm   
buttonmode bm   
holdcv hc   
defaultcv dc   
defaultgate dfg   
clearskips cs   
clearrepeats crp   
clearstartend cse 

gatelength gl   
keyboardmode km   
keyboardcv kc   
keyboardgate kg   
recordmode rm   
recordsilence rsi   
copy cy   
paste pa   
pastefaders pf   
pastebuttons pb   
linktonext ln   
luckychance lc   
luckyscope ls   
luckyamount la   
luckycvbase lv   
luckyfaders lf   
luckybuttons lb   
luckycvs lcv   
luckycvdrift ld   
luckyspread lr   
luckyinvert li   
luckyrandomizecv lrc   
luckygates lg   
luckyskips lk   
luckyties lt   
luckygatepattern lgp   
luckygateprob lga   
luckyrepeats lrp   
luckyratchets lrt   
luckyshuffle lsh   
buttoncolor bc   
luckyreverse lrv   
root ro   
degree dg   
select1 s1   
select3 s3   
select5 s5   
select7 s7   
select9 s9   
select11 s11   
select13 s13   
selectfill1 sf1   
selectfill2 sf2   
selectfill3 sf3   
selectfill4 sf4   
selectfill5 sf5   
harmonicshift has   
noteshift nos   
selectnoteshift sns   
tuningmode tm   
tuningpitch tp   
transpose tr   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl 

clearall ca   
dontsave dos 

cv   
gate g   
startofsequence ssq   
startofpart spa   
startstepout sso   
endstepout eso   
currentstep cst   
currentpage cpq   
accumulator acc 

## euklid

clock c   
reset r   
outputsignal os   
length l   
beats b   
offset of 














output o   
offbeats ob 



## explin

input i   
startvalue sv   
endvalue ev   
mix m 

output o 

















## faderbank









firstfader f   
notches n   
startvalue sv   
ledcolor lc   
ledvalue1 ... ledvalue16 lv   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl   
clearall ca   
dontsave dos 

output1 ... output16 o   
button1 ... button16 b 



























## fadermatrix

firstfader f 






rowcolumn rc   
notches1 ... notches4 n   
startvalue1 ... startvalue4   
ledvalue11 ... ledvalue141   
ledvalue21 ... ledvalue242   
ledvalue31 ... ledvalue343   
ledvalue41 ... ledvalue444   
ledcolor1 ... ledcolor4 lc   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl   
clearall ca   
dontsave dos 

output11 ... output14 o1   
output21 ... output24 o2   
output31 ... output34 o3   
output41 ... output44 o4   
button11 ... button14 b1   
button21 ... button24 b2   
button31 ... button34 b3   
button41 ... button44 b4 

## firefacecontrol


trs   
outputlevel1 ... outputlevel16   
mainoutput mo   
phonesoutput1, phonesoutput2   
outputmix1in1 ... outputmix1in16   
outputmix2in1 ... outputmix2in16   
outputmix3in1 ... outputmix3in16   
outputmix4in1 ... outputmix4in16   
outputmix5in1 ... outputmix5in16   
outputmix6in1 ... outputmix6in16   
outputmix7in1 ... outputmix7in16   
outputmix8in1 ... outputmix8in16   
outputmix9in1 ... outputmix9in16   
outputmix10in1 ... outputmix10in16   
outputmix11in1 ... outputmix11in16   
outputmix12in1 ... outputmix12in16   
outputmix13in1 ... outputmix13in16   
outputmix14in1 ... outputmix14in16   
outputmix15in1 ... outputmix15in16   
outputmix16in1 ... outputmix16in16   
postfader1 ... postfader16   
pan1 ... pan16 p   
unmute1 ... unmute16 u   
update ud   
select s   
selectat sa 

## flipflop

toggle t   
set s   
reset r   
clear cl   
startvalue sv   
load ld   
loadvalue lv 

output o 

## fold

input i   
foldby f   
minimum m   
maximum x 









output o 

## fourstatebutton

button b   
reset r   
value1 ... value4 v   
startvalue sv 

output o   
led l 

## gatetool

inputgate ig   
inputtrigger it   
inputedge ie   
gatelength gl   
gatestretch s   
mingatelength m   
maxgatelength x   
taptempo tt 

outputgate og   
outputtrigger ot   
outputedge oe 













## ifequal









input1 i1   
input2 i2   
ifequal q   
else e 

output o 






## lfo







rate ra 

taptempo tt   
hz ro   
level l   
randomize r   
offset of   
bipolar b   
phase p   
pulsewidth pw   
skew sk   
sync sy   
syncphase sp   
waveform w 













output o   
square q   
sawtooth st   
triangle t   
ramp rp   
paraboloid pb   
sine si   
cosine cs 

## logic

input1 ... input8 i   
threshold t   
lowvalue l   
highvalue h   
countvalue cv 

















and a   
or o   
xor x   
nand na   
nor no   
negated n   
count c   
countlow cl 






## math

input1, input2 i   
sum s   
difference d   
product p   
quotient qu   
modulo md   
power pw   
average a   
maximum x   
minimum m   
negation n   
reciprocal rc   
amount am   
sine si   
cosine cs 






















square q   
root ro   
logarithm l   
round rd   
floor f   
ceil c 

## matrixmixer




















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auxin1 ... auxin4 a   
mixmax m   
startvalue sv   
button11 ... button14 b1   
button21 ... button24 b2   
button31 ... button34 b3   
button41 ... button44 b4   
select s   
selectat sa   
preset pr   
loadpreset lp   
savepreset sp   
clear cl   
clearall ca   
dontsave dos 

output1 ... output4 o   
led11 ... led14 l1   
led21 ... led24 l2   
led31 ... led34 l3   
led41 ... led44 l4 



















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
















file f   
track tc   
clock c   
reset r   
loop lo   
end e   
speed sp   
channel ch   
tuningmode tm   
tuningpitch tp   
transpose tr   
holdvelocity hv   
pitchbendrange pbr   
bendpitch bp   
roundrobin rr   
voiceallocation va   
notegap ngp   
ccnumber1 ... ccnumber4 cn   
lowestnote ln   
highestnote hn   
note1 ... note16 n 











clockout co 

midiclock mc   
endofftrack et   
error er   
pitch1 ... pitch8 p   
velocity1 ... velocity8 v   
pressure1 ... pressure8 pr   
gate1 ... gate8 g   
trigger1 ... trigger8 t   
cc1 ... cc4 c   
cctrigger1 ... cctrigger4t   
notegate1 ... notegate16ng   
pitchbend pb   
programchange pc   
program pm   
bank ba   
modwheel w   
volume vo   
portamento po   
soft so 











































## midiin

trs   
usb   
initialrunning ir   
systemreset sr   
channel ch   
tuningmode tm   
tuningpitch tp   
transpose tr   
holdvelocity hv   
pitchbendrange pbr   
bendpitch bp   
roundrobin rr   
voiceallocation va   
notegap ngp   
ccnumber1 ... ccnumber4 cn   
lowestnote ln   
highestnote hn   
note1 ... note16 n 

clock c   
clock8 c8   
clock8t c8t   
clock16 c16   
clock4 c4   
midiclock mc   
start st   
continue co   
stop sp   
running ru   
active a   
pitch1 ... pitch8 p   
velocity1 ... velocity8 v   
pressure1 ... pressure8 pr   
gate1 ... gate8 g   
trigger1 ... trigger8 t   
cc1 ... cc4 c 

cctrigger1 ... cctrigger4t   
notegate1 ... notegate16ng   
pitchbend pb   
programchange pc   
program pm   
bank ba   
modwheel w   
volume vo   
portamento po   
soft so 

## midiout

























channel ch   
usb   
trs t   
pitch1 ... pitch8 p   
gate1 ... gate8 g   
velocity1 ... velocity8 v   
noteoffvelocity1 ... noteoffvelocity8   
pressure1 ... pressure8 pr   
channelpressure cp   
pitchstabilization ps   
triggerdelay td   
lowestnote ln   
highestnote hn   
notegate1 ... notegate16ng   
note1 ... note16 n   
notegatevelocity1 ... notegatevelocity8   
modwheel w   
volume vo   
pitchbend pb   
pitchtracking pt   
pitchbendrange pbr   
ccnumber1 ... ccnumber8 cn   
cc1 ... cc8 c   
cctrigger1 ... cctrigger8t   
updateccs uc   
delayinitialccs dc   
bank ba   
program pm   
programchange pc   
start st   
stop sp   
running ru   
systemreset sr   
allnotesoff ao   
allsoundoff aso   
damper dp   
portamento po   
sostenuto su   
soft so   
legato lg   
clock c   
midiclock mc   
activesensing as   
updaterate ur   
select s 

selectat sa 

## midithrough

fromtrs ft   
fromusb fu   
totrs tt   
tousb tu 

## minifonion

input i   
trigger t   
bypass b   
root ro   
degree dg   
select1 s1   
select3 s3   
select5 s5   
select7 s7   
select9 s9   
select11 s11   
select13 s13   
selectfill1 sf1   
selectfill2 sf2   
selectfill3 sf3   
selectfill4 sf4   
selectfill5 sf5   
has hf   
harmonics shift   
noteshift nos   
selectnoteshift sns   
tuningmode tm   
tuningpitch tp   
transpose tr 





output o   
notechange n 

## mixer

input1 ... input8 i 

output o   
maximum x   
minimum m   
average a 

## motoquencer

firstfader f   
numfaders n   
numsteps ns   
page p   
clock c 

taptempo  
reset  
run  
composemode  
mute  
cvbase  
cvrange  
invert  
quantize  
cvnotches  
shiftsteps  
startstep  
endstep  
form  
direction  
pingpong  
pattern  
repeatshift  
ratchetshift  
accumulatorrange  
constantlength  
autoreset  
metricsaver  
fadermode  
buttonmode  
holdcv  
defaultcv  
defaultgate  
clearskips  
clearrepeats  
clearstartend  
gatelength  
keyboardmode  
keyboardcv  
keyboardgate  
recordmode  
recordsilence  
copy  
paste  
pastefaders  
pastebuttons  
linktonext  
luckychance  
luckyscope  
luckyamount  
luckycvbase  
luckyfaders  
luckybuttons  
lucky cvs  
lucky cvdrift  
luckyspread  
luckyinvert  
luckyrandomizecv  
luckygates  
luckyskips  
luckyties  
luckygatepattern  
luckygateprob

tt  
r  
ru  
cm  
m  
cb  
cr  
iv  
q  
cn  
sh  
ss  
es  
fo  
d  
pp  
pt  
rs  
ras  
ac  
co  
ar  
ms  
fm  
bm  
hc  
dc  
dfg  
cs  
crp  
cse  
gl  
km  
kc  
kg  
rm  
rsi  
cy  
pa  
pf  
pb  
ln  
lc  
ls  
la  
lv  
lf  
lb  
lcv  
ld  
lr  
li  
lrc  
lg  
lk  
lt  
lgp  
lga

luckyrepeats  
luckyratchets  
luckyshuffle  
buttoncolor  
luckyreverse  
root  
degree  
select1  
select3  
select5  
select7  
select9  
select11  
select13  
selectfill1  
selectfill2  
selectfill3  
selectfill4  
selectfill5  
harmonicshift  
noteshift  
selectnoteshift  
tuningmode  
tuningpitch  
transpose  
select  
selectat  
preset  
loadpreset  
savepreset  
clear  
clearall  
dontsave  
  
cv  
gate  
startofsequence  
startofpart  
startstepout  
endstepout  
currentstep  
currentpage  
accumulator

motorfader  
  
fader  
startvalue  
notches  
ledvalue  
ledcolor  
sharewithnext  
select  
selectat  
preset  
loadpreset  
savepreset  
clear

lrp  
lrt  
lsh  
bc  
lrv  
ro  
dg  
s1  
s3  
s5  
s7  
s9  
s11  
s13  
sf1  
sf2  
sf3  
sf4  
sf5  
has  
nos  
sns  
tm  
tp  
tr  
s  
sa  
pr  
lp  
sp  
cl  
ca  
dos  
  
g  
ssq  
spa  
sso  
eso  
cst  
cpg  
acc  
  
f  
sv  
n  
lv  
lc  
sw  
s  
sa  
pr  
lp  
sp  
cl

clearall  
dontsave  
  
output  
button  
  
multicompare  
  
input  
compare1 ... compare8  
ifequal1 ... ifequal8  
else

output  
  
notchedpot  
  
pot  
notch  
  
output  
bipolar  
absbipolar  
lefthalf  
righthalf  
lefthalfinv  
righthalfinv

notebuttons  
  
button1 ... button12  
clock  
startnote  
select  
selectat  
preset  
loadpreset  
savepreset  
clear  
clearall  
dontsave

led1 ... led12  
output  
semitone  
gate  
  
nudge  
  
buttonup  
buttondown  
amount  
startvalue  
minimum  
maximum  
wrap

ca  
dos  
  
o  
b  
  
i  
c  
if  
e  
  
o  
  
p  
no  
  
o  
b  
ab  
l  
r  
li  
ri  
  
b  
sn  
sa  
pr  
lp  
sp  
cl  
ca  
dos  
  
l  
o  
st  
g  
  
u  
d  
am  
sv  
m  
x  
w

offset  
select  
selectat  
preset  
loadpreset  
savepreset  
clear  
clearall  
dontsave  
  
ledup  
leddown  
output

octave  
  
input  
spread  
detune  
fifths

output1 ... output3  
  
once  
  
delay  
onlycoldstart

trigger  
  
outputcalibrator  
  
output  
referencepoint  
nudgeup  
nuggedown  
save  
cancel  
loaddefaults

dirty  
calibration  
uncalibrated  
  
polytool  
  
pitchinput1 ... pitchinput16  
gateinput1 ... gateinput16  
roundrobin  
voiceallocation

pitchoutput1 ... pitchoutput16  
gateoutput1 ... gateoutput16  
  
pot

of  
s  
sa  
pr  
lp  
sp  
cl  
ca  
dos  
  
lu  
ld  
o  
  
i  
s  
d  
f  
  
o  
  
dl  
c  
  
t  
  
d  
cl  
u  
  
o  
r  
nu  
nd  
sv  
c  
ld  
  
d  
cl  
u  
  
?  
?  
?  
?  
?  
  
?  
?  
?  
?  
?

pot  
outputscale  
notch  
discrete  
slope  
ledgauge  
startvalue  
select  
selectat  
preset  
loadpreset  
savepreset  
clear  
clearall  
dontsave

output  
bipolar  
absbipolar  
lefthalf  
righthalf  
lefthalfinv  
righthalfinv  
onchange

quantizer  
  
input  
trigger  
steps  
bypass  
direction

output  
changed  
  
queue  
  
input  
clock  
outputpos1 ... outputpos8

output1 ... output8  
  
random  
  
clock  
minimum  
maximum  
steps

output  
  
recorder  
  
playbutton

p  
os  
no  
d  
sl  
g  
sv  
s  
sa  
pr  
lp  
sp  
cl  
ca  
dos  
  
o  
b  
ab  
l  
r  
li  
ri  
c  
  
i  
t  
s  
b  
d  
  
o  
c  
  
o  
c  
p  
  
o  
  
c  
m  
x  
s  
  
o  
  
o  
  
p  
  
o  
pb

recordbutton  
stopbutton  
loop  
pause  
mode  
playbackspeed  
scrub  
scrubposition  
trimstart  
trimend  
cvin  
numberin  
gatein1 ... gatein8  
clock  
sample  
timewindow  
bypass  
save  
load  
filenumber  
select  
selectat

recordled  
played  
stopled  
cvout  
numberout  
gateout1 ... gateout8  
overflow

sample  
  
input  
sample  
gate  
timewindow  
bypass

output  
  
select  
  
input  
select  
selectat

output  
  
sequencer  
  
clock  
reset  
stages  
steps  
transpose  
outputscaling

rb  
sb  
lo  
p  
m  
ps  
sc  
sp  
ts  
te  
ci  
ni  
gi  
c  
sm  
tw  
b  
sv  
ld  
f  
s  
sa  
  
rl  
pl  
sl  
co  
no  
go  
ov  
  
i  
sm  
g  
tw  
b  
  
o  
  
i  
s  
sa  
  
o  
  
c  
r  
sg  
s  
tr  
os

gatelength  
pitch1 ... pitch8  
cv1 ... cv8  
gate1 ... gate8  
slew1 ... slew8  
repeat1 ... repeat8  
chaintonext

gl  
p  
g  
sw  
rp  
cn

pitchoutput  
cvoutput  
gateoutput

po  
co  
go

sinfonionlink

root  
degree  
transpose  
chaoticdetune  
harmonicshift  
linkstate  
clock  
reset  
step  
beat

ro 1\*2\*3  
dg 1\*2\*3  
tr  
ch  
has 1\*2\*3  
ls  
c  
r  
s  
b

slew

input  
slew  
slewup  
slewdown  
gate

i  
sw  
u  
d  
g

exponential  
linear  
scurve

e  
l  
c

spring

mass  
gravity  
springforce  
flowresistance  
friction  
speed  
shove  
shoveforce  
reset  
startvelocity  
startposition

m  
g  
f  
fr  
fi  
sp  
sh  
sf  
r  
sv  
spo

velocity  
position

v  
p

superjust

input1 ... input8  
tuningmode  
tuningpitch  
bypass  
transpose

i  
tm  
tp  
b  
tr

output1 ... output8

o

switch

input1 ... input16  
forward  
backward  
reset  
offset

i  
f  
b  
r  
of 1\*2\*3

output1 ... output16

o

switchedpot

pot  
bipolar  
switch1 ... switch8

p  
b  
s

output1 ... output8

o

timing

clock  
reset  
timing1 ... timing8

c  
r  
t

output

o

togglebutton

button  
reset  
onvalue  
offvalue  
doubleclickmode  
startvalue

b  
r  
ov  
fv  
dm  
sv

led  
output  
inverted  
negated

l  
o  
iv  
n

transient

start  
end

st  
e

duration  
loop  
pingpong  
freeze  
reset  
clock

d  
lo  
pp  
f  
r  
c

output  
phase  
endoftransient

o  
p  
et

triggerdelay

input  
delay  
gatelength  
repeats  
mute  
clock

i  
dl  
gl  
rp 1\*2\*3  
m  
c

output  
overflow

o  
ov

unusedfaders

firstfader  
numfaders

f 1\*2\*3  
n 1\*2\*3

select  
selectat

s 1\*2\*3  
sa 1\*2\*3

vcotuner

tuningnote  
concertpitch  
basepitch  
smooth  
precision  
select  
selectat

tn 1\*2\*3  
cp  
b  
sm  
pc  
s 1\*2\*3  
sa 1\*2\*3

hz  
ledflat  
ledsharp  
ledintune  
intune  
tuning  
cents  
pitch  
referencepitch  
vcofound

lf  
ls  
lt  
it  
t  
c  
p  
rp  
vf