

adc

input

minimum

maximum

bit1 ... bit12

algoquencer

preset

loadpreset

savepreset

select

selectat

clock

reset

button1 ... button16

length

pattern

nextpattern

prevpattern

reroll

pitchlow

pitchhigh

pitchresolution

gatelength

lengthbutton

repeats

alternaterepeats

branches

mutebutton

unmutebutton

accentbutton

alternatebutton

alternatebars

accentlow

accenthigh

activity

variation

dejavu

morphs

offbeats

distribution

fills

fillorder

rolls

rollcount

rollsteps

rollstartvelo

pitch1 ... pitch16

trigger

gate

pitch

accent

led1 ... led16

barled1 ... barled4

rollvelocity

startofbar

mutedled

unmutedled

morphled

fillsled

branch

arpeggio

root

degree

select1

select3

select5

select7

select9

select11

select13

selectfill1

selectfill2

selectfill3

selectfill4

selectfill5

tuningmode

tuningpitch

transpose

pitch

range

clock

reset

pattern

direction

pingpong

butterfly

drop

octaves

startnote

output

bernoulli

input

distribution

output1

output2

burst

rate

taptempo

hz

trigger

reset

count

skip

output

button

select

selectat

button

reset

onvalue

offvalue

value1 ... value4

doubleclickmode

states

startvalue

led

output

inverted

negated

longpress

buttongroup

select

selectat

minactive

maxactive

button1 ... button16

value1 ... value16

led1 ... led16

output

buttonpress

longpress

calibrator

select

selectat

input

nudgeup

nudgedown

nudgeamount

reset

tune0 ... tune8

tunelowtail

tunehightail

output

ledup

leddown

chord

root

degree

select1

select3

select5

select7

select9

select11

select13

selectfill1

selectfill2

selectfill3

selectfill4

selectfill5

tuningmode

tuningpitch

transpose

pitch

spread

inversion

trigger

output1 ... output4

clocktool

clock

reset

divide

multiply

dutycycle

gatelength

delay

output

inputpitch

outputpitch

compare

input

compare

ifgreater

ifless

ifequal

else

precision

output

contour

gate

trigger

retrigger

startfromzero

abortattack

loop

predelay

attack

hold

decay

sustain

swell

swelltime

swelllevel

release

level

velocity

pitch

taptempo

shape

attackshape

decayshape

swellshape

releaseshape

zerocrossing

output

negated

inverted

endofpredelay

endofattack

endofhold

endofdecay

endofrelease

copy

input

minimum

maximum

output

inverted

crossfader

input1 ... input8

fade

output

cvloop

cvin

gatein

clock

reset

length

tapespeed

loopswitch

pause

overlay

overdub

bypass

cvout

gateout

dac

bit1 ... bit12

minimum

maximum

output

droid

ledbrightness

maxslope1 ... maxslope8

lpfilter1 ... lpfilter8

euklid

clock

reset

outputsignal

length

beats

offset

output

offbeats

explin

input	
startvalue	
endvalue	
mix	

output 


firefacecontrol

```

select
selectat
outputlevell 1..2 outputlevell16
mainoutput
phonesoutput1, phonesoutput2
outputmix1in1 ... outputmix1in16
outputmix2in1 ... outputmix2in16
outputmix3in1 ... outputmix3in16
outputmix4in1 ... outputmix4in16
outputmix5in1 ... outputmix5in16
outputmixjin1 ... outputmixjin16
outputmix7in1 ... outputmix7in16
outputmix8in1 ... outputmix8in16
outputmix9in1 ... outputmix9in16
outputmix10in1 ... outputmix10in16
outputmix11in1 ... outputmix11in16
outputmix12in1 ... outputmix12in16
outputmix13in1 ... outputmix13in16
outputmix14in1 ... outputmix14in16
outputmix15in1 ... outputmix15in16
outputmix16in1 ... outputmix16in16
postfader1 ... postfader16
pan1 ... pan16
unmute1 ... unmute16
update

```

fold

input	
foldby	
minimum	
maximum	





output 









fourstatebutton

button	
reset	
value1 ... value4	
startvalue	10203

output
led

lfo

rate	
taptempo	
hz	
level	
randomize	
offset	
bipolar	
phase	
pulsewidth	
skew	
sync	
syncphase	
waveform	

output	
square	
sawtooth	
triangle	
ramp	
paraboloid	
sine	
cosine	












logic










input1 ... input8
threshold
lowvalue
highvalue
countvalue

and	
or	
xor	
nand	
nor	
negated	
count	1+2+3
countlow	

math






input1, input2 

sum	
difference	
product	
quotient	
modulo	
power	
average	
maximum	
minimum	
negation	
reciprocal	










amount	
sine	
cosine	
square	
root	
logarithm	
round	
floor	
ceil	






matrixmixer















```
select
selectat
input1 ... input4
auxin1 ... auxin4
mixmax
button11 ... button14
button21 ... button24
button31 ... button34
button41 ... button44
```

output1 ... output4	
led11 ... led14	
led21 ... led24	
led31 ... led34	
led41 ... led44	











midifileplayer
























channel	1*2*3
tuningmode	
tuningpitch	
transpose	
holdvelocity	
pitchbendrange	
bendpitch	
roundrobin	
voiceallocation	
notegap	1*2*3
ccnumber1 ... ccnumber4	
lowestnote	1*2*3
highestnote	1*2*3
note1 ... note16	1*2*3
file	1*2*3
track	1*2*3
clock	
reset	
loop	
end	
speed	1*2*3

pitch1 ... pitch8 
velocity1 ... velocity8 
pressure1 ... pressure8 
gate1 ... gate8 
trigger1 ... trigger8 

cc1 ... cc4	
notegate1 ... notegate16	
pitchbend	
programchange	
program	
bank	
modwheel	
volume	
portamento	
soft	
clockout	
midiclock	
endoftrack	
error	

midin

channel	1 2 * 3
tuningmode	
tuningpitch	 $\frac{1V}{Oct}$
transpose	 $\frac{1V}{Oct}$
holdvelocity	
pitchbendrange	 $\frac{1V}{Oct}$
bendpitch	
roundrobin	
voiceallocation	1 2 * 3
notegap	
ccnumber1 ... ccnumber4	1 2 * 3
lowestnote	1 2 * 3
highestnote	1 2 * 3
note1 ... note16	1 2 * 3
usb	
channel	1 2 * 3
systemreset	


























pitch1 ... pitch8	
velocity1 ... velocity8	
pressure1 ... pressure8	
gate1 ... gate8	
trigger1 ... trigger8	
cc1 ... cc4	
notegate1 ... notegate16	
pitchbend	
programchange	
program	
bank	
modwheel	
volume	
portamento	
soft	
clock	
clock8	
clock8t	
clock16	
clock4	
midiclock	
start	
continue	

stop 

running 

active 























midout

select	
selectat	1+2+3
channel	1+2+3
usb	
pitch1 ... pitch8	 $\frac{1V}{OUT}$
gate1 ... gate8	
velocity1 ... velocity8	0-1
noteoffvelocity1 ... noteoffvelocity8	0-1
pressure1 ... pressure8	0-1
channelpressure	0-1
pitchstabilization	
triggerdelay	
lowestnote	1+2+3
highestnote	1+2+3
notegate1 ... notegate16	
notel ... notel6	1+2+3
notegatevelocity1 ... notegatevelocity16	0-1
modwheel	0-1
volume	0-1
pitchbend	
pitchtracking	1+2+3
pitchbendrange	 $\frac{1V}{OUT}$
ccnumber1 ... ccnumber8	1+2+3
cc1 ... cc8	0-1
cctrigger1 ... cctrigger8	1+2+3
bank	1+2+3
program	1+2+3
programchange	
start	
stop	
running	
systemreset	
allnotesoff	
allsoundoff	
damper	
portamento	
sostenuto	
soft	
legato	
clock	
midiclock	
activesensing	
updaterate	

midithrough

```
fromusb
tousb
```

minifonion

root		1*2+3
degree		1*2+3
select1		
select3		
select5		
select7		
select9		
select11		
select13		
selectfill1		
selectfill2		
selectfill3		
selectfill4		
selectfill5		
tuningmode		
tuningpitch		
transpose		
input		
trigger		
bypass		
noteshift		1*2+3
selectnoteshift		1*2+3

output $\frac{1V}{Oct}$
notechange

mixer

input1 ... input8 

output	
maximum	
minimum	
average	

motorfader

preset	1 × 2 × 3
loadpreset	
savepreset	
select	
selectat	1 × 2 × 3
fader	1 × 2 × 3
block	1 × 2 × 3
startvalue	
notches	1 × 2 × 3
brightness	
color	
sharewithnext	

output

notchedpot

pot

notch



output



bipolar



absbipolar



lefthalf



righthalf



lefthalfinv



righthalfinv



notebuttons

select



selectat



button1 ... button12



clock



led1 ... led12



output



semitone



nudge

select



selectat



buttonup



buttondown



amount



startvalue



minimum



maximum



wrap



offset



reset



persist



ledup



leddown



output



octave

input



spread



detune



fifths



output1 ... output3



pot

select



selectat



pot



outputscale



notch



slope



ledgauge



startvalue



reset



output



bipolar



absbipolar



lefthalf



righthalf



lefthalfinv



righthalfinv



onchange



quantizer

input



trigger



steps



bypass



output



queue

input



clock



outputpos1 ... outputpos8



output1 ... output8



random

clock



minimum



maximum



steps



output



sample

input



sample



gate



timewindow



bypass



output



sequencer

clock



reset



stages



steps



transpose



outputscaling



gatelength



pitch1 ... pitch8



cv1 ... cv8



gate1 ... gate8



slew1 ... slew8



repeat1 ... repeat8



chaintonext



pitchoutput



cvoutput



gateoutput



slew

input



slew



slewup



slewdown



gate



exponential



linear



scurve



spring

mass



gravity



springforce



flowresistance



friction



speed



shove



shoveforce



reset



startvelocity



startposition



velocity



position



superjust

input1 ... input8



tuningmode



tuningpitch



bypass



transpose



output1 ... output8



switch

input1 ... input8



forward



backward



reset



offset



output1 ... output8



switchedpot

pot



bipolar



switch1 ... switch8



output1 ... output8



timing

clock



reset



timing1 ... timing8



output



togglebutton

button



reset1 ... reset4



onvalue



offvalue



doubleclickmode



startvalue



switch



led



output1 ... output4



inverted



negated



transient

start



end



duration



loop



pingpong



freeze



reset



clock



output



phase



endoftransient



triggerdelay

input



delay



gatelength



repeats



mute



clock



output



overflow

