SmartSet Engine Supported Actions

Version 3-31-23

Note: Not all HID actions are supported on all operating systems. Refer to the appropriate the HID Usage Tables here:
https://www.usb.org/sites/default/files/documents/hut1_12v2.pdf

USB Keyboard/Keypad Page (0x0C) Actions

Usage ID (Hex)	Kinesis Token	Usage Name
4	a	keyboard a and A
5	b	keyboard b and B
6	c	keyboard c and C
7	d	keyboard d and D
8	e	keyboard e and E
9	f	keyboard f and F
0A	g	keyboard g and G
0B	h	keyboard h and H
0C	i	keyboard i and I
0D	j	keyboard j and J
0E	k	keyboard k and K
0F	l	keyboard l and L
10	m	keyboard m and M
11	n	keyboard n and N
12	o	keyboard o and O
13	p	keyboard p and P
14	q	keyboard q and Q
15	r	keyboard r and R
16	s	keyboard s and S
17	t	keyboard t and T
18	u	keyboard u and U
19	v	keyboard v and V
1A	w	keyboard w and W
1B	x	keyboard x and X

1C	y	keyboard y and Y
1D	z	keyboard z and Z
1E	1	keyboard 1 and !
1F	2	keyboard 2 and @
20	3	keyboard 3 and #
21	4	keyboard 4 and $
22	5	keyboard 5 and %

23	6	keyboard 6 and ^
24	7	keyboard 7 and &
25	8	keyboard 8 and *
26	9	keyboard 9 and (
27	0	keyboard 0 and)
28	ent	keyboard Return
29	esc	keyboard ESCAPE
2A	bspc	keyboard DELETE
2B	tab	keyboard Tab
2C	spc	keyboard Spacebar
2D	hyph	keyboard - and (underscore)
2E	eql	keyboard = and +
2F	obrk	keyboard [and {
30	cbrk	keyboard] and }
31	bsls	keyboard \and	
32	int#	keyboard non-US # and ˜
33	scol	keyboard ; and :
34	apos	keyboard ' and "
35	grav	keyboard Grave Accent and Tilde
36	comm	keyboard , and <
37	perd	keyboard . and >
38	fsls	keyboard / and ?
39	caps	keyboard Caps Lock
3A	f1	keyboard F1
3B	f2	keyboard F2
3C	f3	keyboard F3

3D	f4	keyboard F4
3E	f5	keyboard F5
3F	f6	keyboard F6
40	f7	keyboard F7
41	f8	keyboard F8
42	f9	keyboard F9
43	f10	keyboard F10
44	f11	keyboard F11
45	f12	keyboard F12
46	prnt	keyboard Print Screen
47	sclk	keyboard Scroll Lock
48	paus	keyboard Pause
49	ins	keyboard Insert
4A	home	keyboard Home

4B	pgup	keyboard Page Up
4C	del	keyboard Delete
4D	end	keyboard End
4E	pgdn	keyboard Page Down
4F	rght	keyboard Right Arrow
50	left	keyboard Left Arrow
51	down	keyboard Down Arrow
52	up	keyboard Up Arrow
53	nmlk	Keypad Num Lock and Clear
54	kp/	keypad /
55	kp*	keypad *
56	kp-	keypad -
57	kp+	keypad +
58	kpen	keypad ENTER
59	kp1	keypad 1 and End
5A	kp2	keypad 2 and Down Arrow
5B	kp3	keypad 3 and Page Down
5C	kp4	keypad 4 and Left Arrow
5D	kp5	keypad 5

5E	kp6	keypad 6 and Right Arrow
5F	kp7	keypad 7 and Home
60	kp8	keypad 8 and Up Arrow
61	kp9	keypad 9 and Page Up
62	kp0	keypad 0 and Insert
63	kp.	keypad. and Delete
64	int\	keyboard Non-US \and |
65	app	keyboard Application
66	powr	keyboard Power1
67	kp=	keypad =
68	f13	keyboard F13
69	f14	keyboard F14
6A	f15	keyboard F15
6B	f16	keyboard F16
6C	f17	keyboard F17
6D	f18	keyboard F18
6E	f19	keyboard F19
6F	f20	keyboard F20
70	f21	keyboard F21
71	f22	keyboard F22
72	f23	keyboard F23

73	f24	keyboard F24
74	kh74	keyboard Execute
75	kh75	keyboard Help
76	kh76	keyboard Menu
77	kh77	keyboard Select
78	kh78	keyboard Stop
79	kh79	keyboard Again
7A	kh7A	keyboard Undo
7B	kh7B	keyboard Cut
7C	kh7C	keyboard Copy
7D	kh7D	keyboard Paste
7E	kh7E	keyboard Find

7F	kh7F	keyboard Mute
80	kh80	keyboard Volume Up
81	kh81	keyboard Volume Down
82	kh82	keyboard Locking Caps
83	kh83	keyboard Locking Num
84	kh84	keyboard Locking
85	kh85	Keypad Comma
86	kh86	Keypad Equal Sign
87	int1	keyboard International1
88	int2	keyboard International2
89	int3	keyboard International3
8A	int4	keyboard International4
8B	int5	keyboard International5
8C	int6	keyboard International6
8D	int7	keyboard International7
8E	int8	keyboard International8
8F	int9	keyboard International9
90	lng1	keyboard LANG1
91	lng2	keyboard LANG2
92	lng3	keyboard LANG3
93	lng4	keyboard LANG4
94	lng5	keyboard LANG5
95	lng6	keyboard LANG6
96	lng7	keyboard LANG7
97	lng8	keyboard LANG8
98	lng9	keyboard LANG9
99	kh99	keyboard Alternate Erase
9A	kh9A	keyboard SysReq/Attention

9B	kh9B	keyboard Cancel
9C	kh9C	keyboard Clear
9D	kh9D	keyboard Prior
9E	kh9E	keyboard Return
9F	kh9F	keyboard Separator

A0	khA0	keyboard Out	
A1	khA1	keyboard Oper	
A2	khA2	keyboard Clear/Again	
A3	khA3	keyboard CrSel/Props	
A4	khA4	keyboard ExSel	
A5	reserved		
A6	reserved		
A7	reserved		
A8	reserved		
A9	reserved		
AA	reserved		
AB	reserved		
AC	reserved		
AD	reserved		
AE	reserved		
AF	reserved		
B0	khB0	keypad 00	
B1	khB1	keypad 000	
B2	khB2	Thousands Separator	
B3	khB3	Decimal Separator	
B4	khB4	Currency Unit	
B5	khB5	Currency Sub-unit	
B6	khB6	keypad (	
B7	khB7	keypad)	
B8	khB8	keypad {	
B9	khB9	keypad }	
BA	khBA	keypad Tab	
BB	khBB	keypad Backspace	
BC	khBC	keypad A	
BD	khBD	keypad B	
BE	khBE	keypad C	
BF	khBF	keypad D	
C0	khC0	keypad E	
C1	khC1	keypad F	

C2	khC2	keypad XOR
C3	khC3	keypad ^
C4	khC4	keypad %
C5	khC5	keypad <
C6	khC6	keypad >
C7	khC7	keypad &
C8	khC8	keypad &&
C9	khC9	keypad |
CA	khCA	keypad ||
CB	khCB	keypad:
CC	khCC	keypad #
CD	khCD	keypad Space
CE	khCE	keypad @
CF	khCF	keypad !
D0	khD0	keypad Memory Store
D1	khD1	keypad Memory Recall
D2	khD2	keypad Memory Clear
D3	khD3	keypad Memory Add
D4	khD4	keypad Memory Subtract
D5	khD5	keypad Memory Multiply
D6	khD6	keypad Memory Divide
D7	khD7	keypad +/-
D8	khD8	keypad Clear
D9	khD9	keypad Clear Entry
DA	khDA	keypad Binary
DB	khDB	keypad Octal
DC	khDC	keypad Decimal
DD	khDD	keypad Hexadecimal
E0	lctr	left control
E1	lshf	left shift
E2	lalt	left alt
E3	lwin	left gui
E4	rctr	right control
E5	rshf	right shift

E6	ralt	right alt
E7	rwin	right gui

USB Consumer Page (0x0C) Actions

B5	next	scan next
B6	prev	scan prev
B0	play	play
B7	stop	stop
E2	mute	mute
E9	vol+	volume up
EA	vol-	volume down
B3	fwrd	forward
B4	rewd	rewind
B1	cpau	pause
B8	ejct	eject
CD	plpa	play/pause
B2	recr	record
B9	ranp	random play
CE	plsk	play/skip
192	calc	calculator
E2	mmut	microphone mute

Custom Kinesis Tokens

	lmou	mouse button left click
	rmou	mouse button right click
	mmou	mouse button middle click
	4mou	mouse button 4 click
	5mou	mouse button 5 click
	sumo	mouse scroll up
	sdmo	mouse scroll down
	moul	mouse move left
	mour	mouse move right
	mouu	mouse move up
	moud	mouse move down

	null	no action
	ss	smartset
	ledt	led toggle on/off
	led+	led brightness up
	led-	led brightness down
	Defs	Default layer shift
	Deft	Default layer toggle
	keys	keypad layer shift
	keyt	keypad layer toggle
	fn1s	fn1 layer shift
	fn1t	fn1 layer toggle
	fn2s	fn2 layer shift
	fn2t	fn2 layer toggle
	fn3s	fn3 layer shift
	fn3t	fn3 layer toggle
	mstp	stop macro playback
	hypr	hyper
	meh	meh
	pro0	load profile 0
	pro1	load profile 1
	pro2	load profile 2
	pro3	load profile 3
	pro4	load profile 4
	pro5	load profile 5
	pro6	load profile 6
	pro7	load profile 7
	pro8	load profile 8
	pro9	load profile 9
	caws	control + alt + win + shift
	xaws	control + alt + win
	cxws	control + win + shift
	caxs	control + alt + shift
	cawx	alt + win + shift

	caxx	control + alt
	cxwx	control + win
	cxxs	control + shift
	xawx	alt + win
	xaxs	alt + shift
	xxws	win + shift