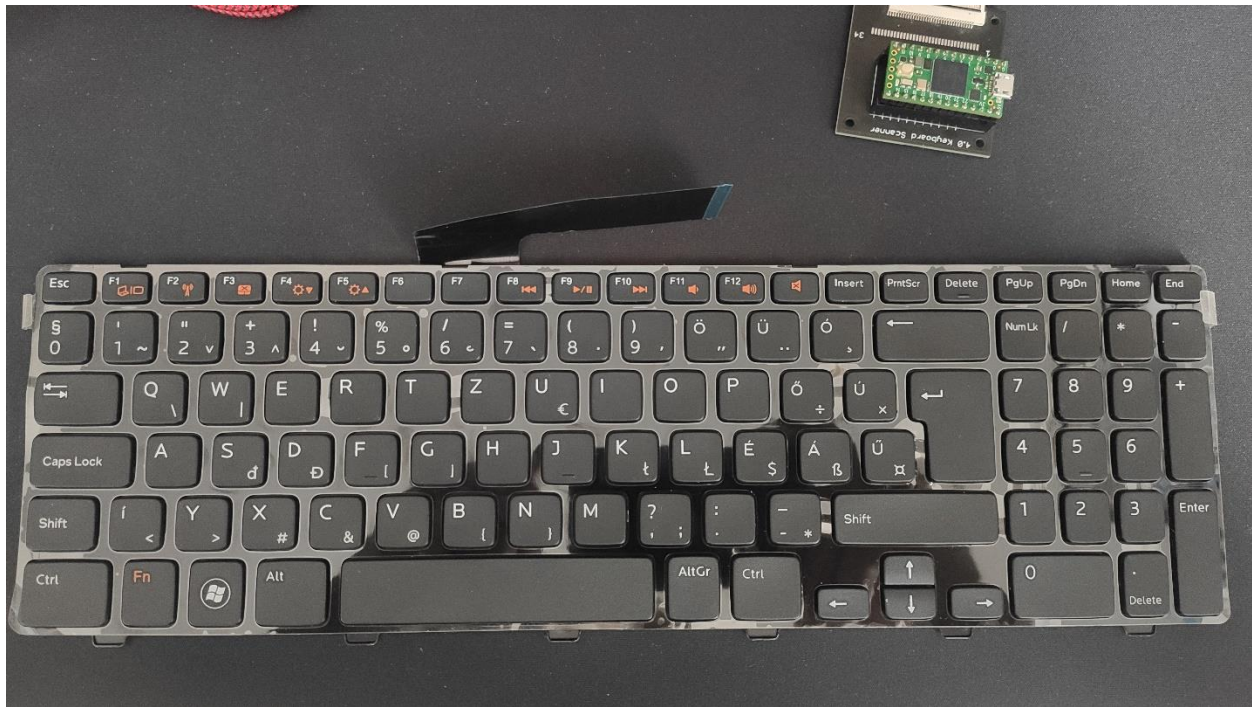Dell N5110 keyboard with Hungarian layout controlled by a Teensy 4.0

The matrix decoder code was used to get the pin connection list for all the keys. This file was used by Marcel's Python code to create the key matrix shown below. The FPC pin number is given first, the Teensy io number is given second.

	2/0	3/22	4/1	5/21	6/2	7/20	8/3	9/19
10/4			Fn					
11/18	KP2	asterix	Pg dn	Pg up	GUI		KP8	
12/5		Cntrl-R					Cnrl-L	
13/17		Shift-R				Shift-L		
14/6	Alt-R			Num Lk	ins			Alt-L
15/29		z	a	q	1	tab	tilde	esc
16/7		x	s	w	2	Caps lk	F1	í ***
17/31		c	d	e	3	F3	F2	F4
18/8	b	v	f	r	4	t	5	g
19/33	space	enter			F10	backspc	F9	F5
20/9	n	m	j	u	7	y	6	h
21/32		comma	k	i	8	]	=	F6
22/10	slash	\	;	p	0	[	minus	quote
23/30		period	L	o	9	F7	F8	
24/11	left	minus	KP ENT		end	KP.	home	up
25/28	down	KP6	KP9	KP3	F11	KP+	del	KP0
26/12	right	KP5	KP7	KP4	F12	slash		KP1

*** This is the i acute key. Upper case is Í. Lower case is í

Code was compiled using numerous country options (there is no Hungary option). The best case was US English but there is no i acute in the Teensyduino key list. KEY_SCROLL_LOCK is not used on this keyboard so this "placeholder" was used in the matrix for i acute. The code watches for this key and then sends Alt codes or Unicodes. Use the code "Dell_N5110_Keyboard_4p0_PC_altcodesR1.ino" if the keyboard is connected to a Windows PC. Use the code "Dell_N5110_Keyboard_4p0_linux_unicodes.ino" if connected to a Linux computer.

Alt Codes for a Windows PC are sent by holding the left Alt key and typing the numbers on the keypad (not the numbers at the top of the keyboard). The character will not be seen until the Alt key is released. The right alt key does not work for Alt Codes on this keyboard.

<   Alt 60

Í   Alt 0205

í   Alt 0237

Unicodes for a Linux computer are sent by holding Ctrl and Shift down, then press and release the U key. Release the Ctrl and Shift keys. Push and release each of the hex numbers. Push and release the enter key. The hex numbers A thru F can be upper or lower case and 0 thru 9 can be from the top of the keyboard or from the keypad.

<   Ctrl/Shift/U   3c   Enter

Í   Ctrl/Shift/U   cd   Enter

í   Ctrl/Shift/U   ed   Enter