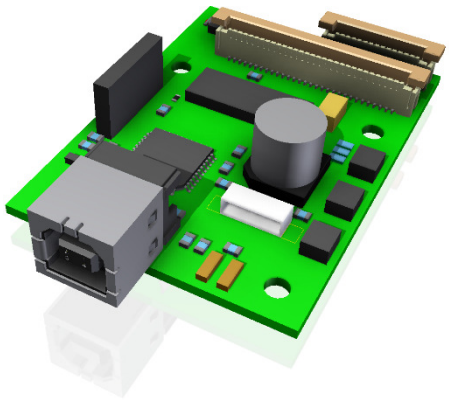
Product Flyer

USB-encoder card for keyboard & trackball

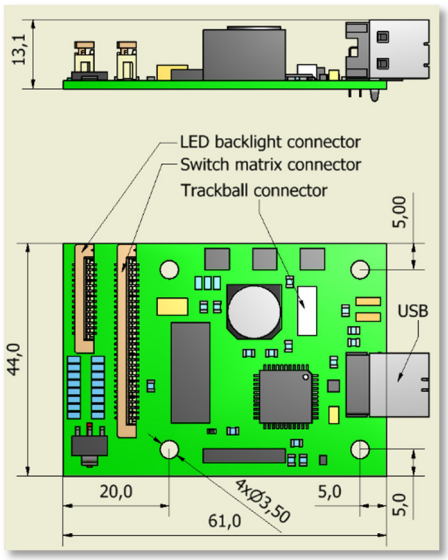
Features



- *Up to 154 switches*
- *Trackball input*
- *Dimmable LED-backlight*
- *USB-interface*
- *Fully tested according to IEC 60945, EMC & environmental.*

Description

The card is made for encoding switches from a button matrix and a quadrature type trackball into USB. It also supports dimmable LED-backlight.

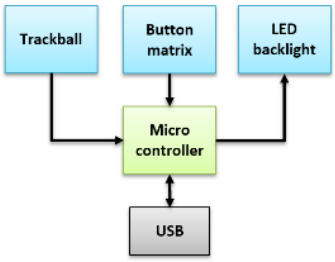


The switch matrix connector has 8 rows and 11 columns, allowing 88 keys. In addition, there are 6 inputs for separate buttons, which can be used in combination with the matrix (allowing CTRL+ALT+DEL etc). Three other inputs are used for mouse buttons. This allows a full QWERTY-keyboard and a trackball with Mousebuttons.

Default firmware configuration:

	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
R0	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
R1	Esc	1	2	3	4	5	6	7	8	9	0
R2	Tab	Q	W	E	R	T	Y	U	I	O	P
R3	Caps Lock	A	S	D	F	G	H	J	K	L	;
R4		Z	X	C	V	B	N	M	,	.	/
R5	space	Left	Down	Right	Menu	Ins	Del	Up	PageUp	PageDown	Enter
R6	-	=	Backspace	Home	F12	Dim down	Dim up	[	]	\	End
R7											*

Separate: Shift, Ctrl, Fn, Win, Alt, AltGr, Left Mouse, Middle Mouse & Right Mouse



It's a microcontroller on the card which all signals are routed through. The card will show up as a HID Keyboard Device in windows when connected to a MS Windows OS via USB. It also supports Linux & Mac. No manual driver installation is necessary.

The card have been fully tested and approved according to maritime requirements (IEC 60945) in a QWERTY keyboard with trackball (See www.keytouch.no). These test results will also apply to other panel designs (depending on the changes from the original design), so none or only a few tests will have to be carried out to get a fully approved new design.

Signal	Description	Connector type
Switch inputs	8+11 matrix + 6 separate inputs	Molex 52610 30 pin
LED backlight	Max 500mA total current	Molex 52610 14 pin
Trackball input	5V TTL/CMOS quadrature	Molex 53261 6 pin
Power supply	5VDC	USB type B
Interfaces	HID Keyboard Device	

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