

LED Backlight

Keytouch designs and manufactures front panels, membrane switches and electro mechanical operating panels with embedded LED backlight.

Advantages of LED backlight:

- Very long operation life
- Multi-color available
- No EMC-noise (when operated from DC)
- Thickness < 1 mm
- Light weight
- Flexible
- Dimming available
- Luminary buttons, text, frames, logos etc.

Build-up

LEDs are mounted onto a polyester foil with conductive silver tracks. Resistors/diodes/transistors be can mounted onto foil too, so only a single DC source is needed to power the backlight. The backlight can be designed without requirement of controller card, only power or it can be designed to fit the **Outputs** controller/PCB. on vour Keytouch can simulate the placement of each LED, to distribute the light as evenly as possible.

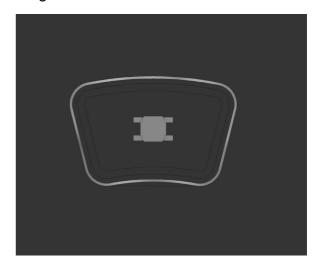
Controller card

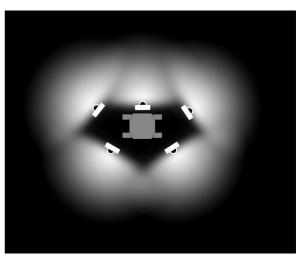
Keytouch can develop a controller card with integrated LED control and dimming, which can interface your system.

Technical data

Power consumption	
mA/LED	1-20
Dimming	
(Using PWM)	0-100%

Light-simulation to achieve even brightness in button-frame:





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