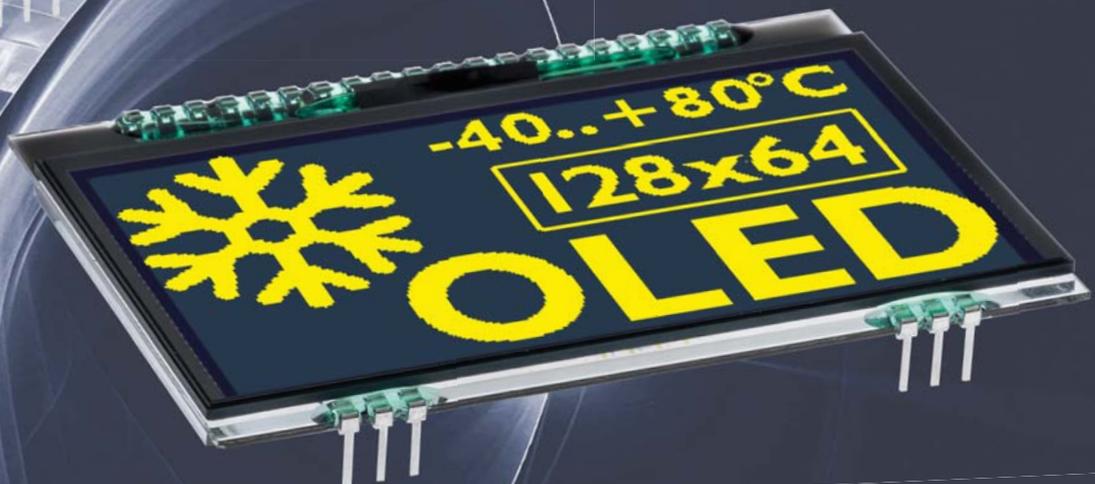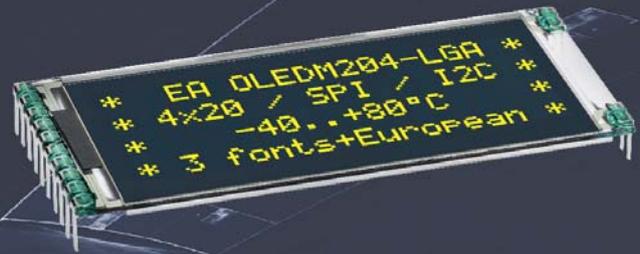# OLED with Pins
# for -40 .. +80°C

· **Excellent Contrast**
· **with pins for easy assembly and connection**
· **SPI, I²C bus interface**
· **Graphic 102x64 and 128x64**
· **Text 2x20, 3x20, 4x20**
· **Integrated character set English/European/Cyrillic**
· **Super fast, even at -40°C**

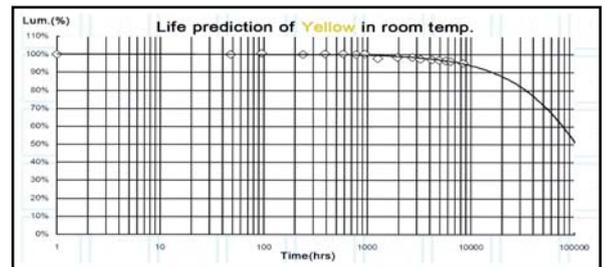# OLED for the Industry
# Excellent Contrast

## Contrast ratio 2000:1

The new OLED technology provides a fantastic contrast ratio of minimum 2000:1. One of the reason is its real black background and the active display technology. The convincing viewing angle delivers a view of near 180°. Because of that these displays are perfect for applications that do require a good visability even at an adverse viewing angle.

## Operating temperature range $t_{op.}$ = -40..+80°C

At temperatures of -40°C even high sophisticated LCD modules suffer in contrast and readability. Here are OLED displays far superior:
* perfect functionality down to -40°C
* full and stable contrast even at -40°C
* extrem fast response time: 10µs (!)
* no contrast adjustment necessary
* no limitation in viewing angle

## Permanent operation

At last the new OLED displays from ELECTRONIC ASSEMBLY are suitable for industrial applications. 50,000 hours for standard operation is defined. Thanks to the new patented OLED technology, the displays reach a life time of 14 khours, even at the maximum operating temperature of +80°C (life time end definition is half brightness).

## Graphic-OLED 102x64 and 128x64

There are 4 different sizes and various models as standard. All displays provide serial interface SPI and I²C (adjustable).

The EA OLEDL128-6GGA e.g. is because of its additional cover glass extra strong. It also may be equipped with an additional touch panel (resistive or PCAP). The integrated pins with its 2.54mm pitch (1/10") make the connection easy. Even samples or smallest mass production are easly built-up on a breadboard or prototyping board. Simultanously the pins provide a clever solution for assembly without cost or additional material.

| OLED Displays with Pins | | | | |
|---|---|---|---|---|
| Part number | Size | Resolution | Dimension | |
| EA OLEDS102-6GGA | 1.7" | 102x64 | 39x39mm | Cover Glass |
| EA OLEDS102-6LGA | | | | |
| EA OLEDM128-6GGA | 2.3" | 128x64 | 55x44mm | Cover Glass |
| EA OLEDM128-6LGA | | | | |
| EA OLEDM128-6LWA | | | | White |
| EA OLEDL128-6GGA | 2.7" | 128x64 | 68x48mm | Cover Glass |
| EA OLEDL128-6LGA | | | | |
| EA OLEDL128-6NGA | | | | Silver background |
| EA OLEDL128-6LWA | | | | White |
| EA OLEDM204-GGA | 2.1" | 4x20 Text | 61x26mm | Cover Glass |
| EA OLEDM204-LGA | | | | |

## Test Board and Simulator Tool

For fast commissioning and test there is the USB testboard EA 9781-1USB made by our own development department. With this there is no need for the design of any individual hard- or software. Just plugging in the display, start the f.o.c. simulator for Windows and here we go!

### Text OLED with built-in character set

The character OLED displays are by default equipped with the most important character sets: English, Japanese, European and Cyrillic. Because of that they are, among other things, perfectly made for the cold east-european countries: full functionality even at freezy temperatures in combination with the cyrillic font. The low amient temperature is concurrently positive for life time.

### Blue, Green, Red

With a minimum order quantity of 500 pcs. we can do different colors like blue, red or green on request.

5.2018