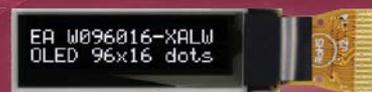
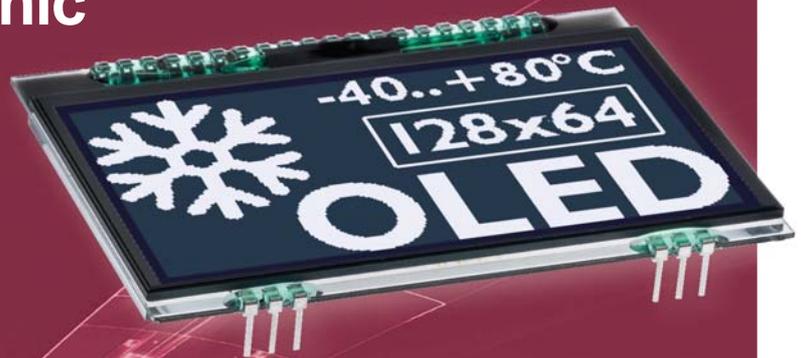


OLED Displays Character and Graphic

- Excellent Contrast
- SPI, I²C and 4/8-Bit Bus
- Graphic 96x16 to 256x64
- 128x64 with Pins
- Text 2x8 to 4x20
- Different Character Sets (English, European, Cyrillic)
- Superfast even at -40°C ($t_r/t_f = 10\mu s$)

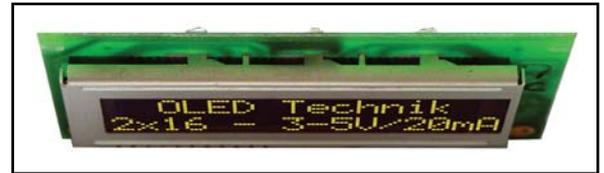


OLED for the Industry

Excellent Contrast

Contrast ratio 2000:1

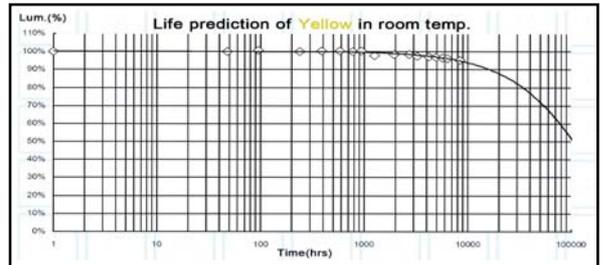
New OLED technology provides a fantastic contrast ratio of minimum 2000:1 featuring black background and active display technology. Convincing viewing angle delivers more than 170° view, perfect for applications requiring good visibility even at adverse viewing angle.



Operating temperature range $t_{op} = -40..+80^{\circ}\text{C}$

With required temperature range sometimes exceeding the possibilities of a typical LCD module. The new OLED displays outperform the competition:

- * perfect functionality down to -40°C
- * full contrast even at -40°C
- * extremely fast response time: $10\mu\text{s}$ (!)
- * no contrast adjustment necessary
- * no limitation in viewing angle



Permanent operation

New OLED displays from DISPLAY VISIONS are suitable for industrial applications. 50,000 hours for standard operation is defined. Newly patented OLED technology provides displays with a lifetime of 14 khours at the maximum operating temperature of $+80^{\circ}\text{C}$ (lifetime end definition = half brightness).

Graphic displays 64x48 to 256x64

Palette of various sizes and resolution is standard. All displays support serial interface SPI or I²C, some support both. Built-in pins make the EA OLEDS102-6GGA easy to use! With these pins the display is connected via standard 2.54mm (0.1") pitch. Samples are quickly connected on breadboard, and in mass production the pins are clever solution for mounting without any additional effort or cost.

Graphic OLED Displays				
Partnumber	Size	Resolution	Module size	Speciality
EA W064048-XALG	0.66"	64x48	18.5x18.1x1.3	
EA W096016-XBLW	0.84"	96x16	29.1x9.2x1.45	icewhite
EA W128128-XALG	1.5"	128x128	33.8x36.5	square shape
EA W128128-XRLG	1.5"	128x128	37x41.2	round shape
EA OLEDS102-6GGA	1.7"	102x64	39x39x3.3	with Pins
EA W128032-XALG	2.0"	128x32	59x19	
EA OLEDM128-6GGA	2.3"	128x64	55x44x3.3	with Pins
EA W128064-XALG	2.42"	128x64	60.5x37	
EA OLEDL128-6GGA	2.72"	128x64	67.8x48x3.3	with Pins
EA W256064-XALG	3.12"	256x64	88x27.8	
EA W256064-XALG	5.5"	256x64	146x45	

Text OLED with built-in character sets

Character OLED displays provide most important character sets as standard, including English, Japanese, European and Cyrillic.

Efficient for the cold countries in the North, the new OLED displays are the perfect solution: full functionality in combination with Cyrillic characters, providing a fast display response time, even at icy temperatures up to -40°C . Low temperatures are positive to the lifetime.

Character OLED Displays					
Partnumber	Row x Column	Char height	Module size	Accessory Bezel	Hints
EA W082-XLG	2x8	5.5	58x32x10	---	yellow
EA W162-X3LW	2x16	5.5	80x36x10	EA 017-2U	icewhite
EA W162-X3LG	2x16	5.5	80x36x10	EA 017-2U	yellow
EA W162-X9LG	2x16	5.5	85x36x10	EA 017-2U	yellow
EA W162-XLG	2x16	5.5	84x44x10	EA 017-2U	yellow
EA W162-XBLW	2x16	8.9	122x55x10	EA 017-12U	icewhite
EA W162-XBLG	2x16	8.9	122x44x10	EA 017-12U	yellow
EA W202-XLG	2x20	5.5	116x37x9.8	EA 017-7U	yellow
EA W202-XDLG	2x20	9.66	180x40x9.3	---	yellow
EA OLEDM204-GGA	4x20	3.15	61x26x2.6	---	yellow
EA W204-XLG	4x20	5.5	98x60x10	EA 017-9U	yellow

SPI or 8-bit bus

Most of the character OLED displays are equipped with both interfaces. Graphic types do provide SPI interface.

There are a lot accessories available including bezel, touchpanel or connector; and USB test board EA 9781-2USB.

