



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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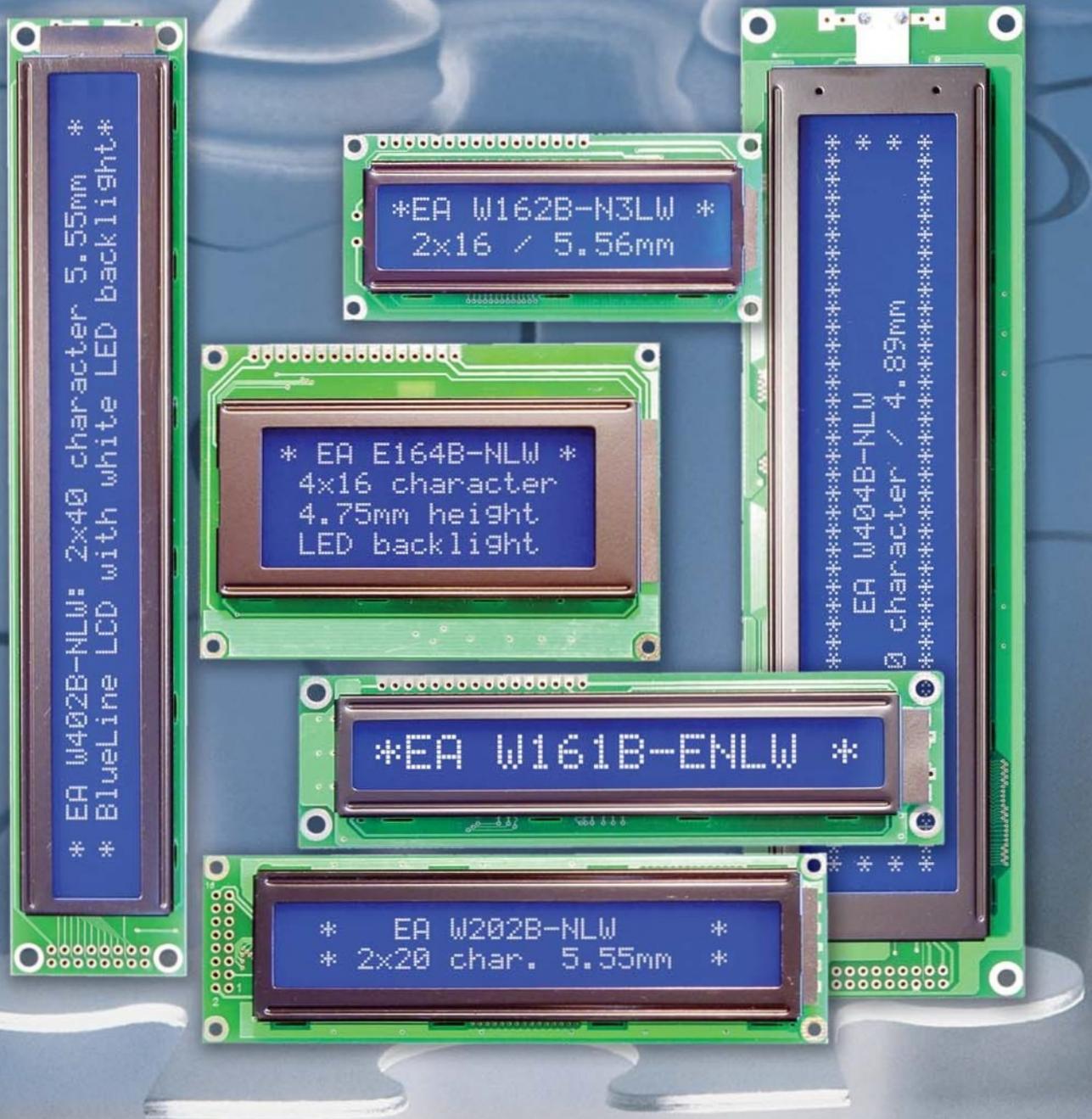
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# BlueLine

Standard LCD with new brilliance



**ELECTRONIC  
ASSEMBLY**

making things easy

## THE NEW LOOK !

Blue displays with white character: „At last an alternative for the yellow/green standard displays“ many customers are pleased. Of course: a fine display helps selling an equipment. The excellent contrast and the wide viewing angle make the people convinced immediately.

What's the secret of these new displays? The base are the built-in super bright white LED dies. But to result an uniform and bright backlight you do need a figured out light guide, too. The blue color and the wide viewing

Pinbelegung			
Pin	Symbol	Pegel	Beschreibung
1	VSS	L	Versorgung 0V, GND
2	VDD	H	Versorgung +5V
3	VEE	-	Displayspannung 0...0.5V
4	RS	H / L	Register Select
5	R/W	H / L	H: Read / L: Write
6	E	H	Enable
7	D0	H / L	Datenleitung 0 (LSB)
8	D1	H / L	Datenleitung 1
9	D2	H / L	Datenleitung 2
10	D3	H / L	Datenleitung 3
11	D4	H / L	Datenleitung 4
12	D5	H / L	Datenleitung 5
13	D6	H / L	Datenleitung 6
14	D7	H / L	Datenleitung 7 (MSB)
15	LED +	-	LED-Versorgung Plus/Vorwiderstand!
16	LED -	-	LED-Versorgung Minus

angle came from a special polarisor for the STN cell.

Thanks to this high efficient construction a 2x16 lcd requires 15~60mA only. Additionally we provide

an ultra low power version with 1 LED chip for 2mA, too! Remember: yellow/green displays do need 100mA and more. Nevertheless BlueLine displays are better readable than traditional yellow/green displays - except in direct sunlight.

## LOW POWER

The low power consumption save money for power supply. And because

of the small heat of backlight there are much less problems to solve with self-heating of device. That is why standard temperature range of -20..+70°C is enough normally. Even life time of white LED chip is limited, these

char.	char. height	outline dim.	ordering information
1x16	9,66mm	122x33mm	EA W161B-ENLW
2x16	5,55mm	80x36mm	EA W162B-N3LW
2x16	5,55mm	84x44mm	EA W162B-NLW
2x16	9,66mm	122x44mm	EA W162B-BNLW
2x20	5,55mm	116x37mm	EA W202B-NLW
2x20	12,7mm	190x54mm	EA E202-CNLW
2x24	5,55mm	118x36mm	EA W242B-NLW
2x40	5,55mm	182x33mm	EA W402B-NLW
4x16	4,75mm	87x60mm	EA W164B-NLW
4x20	4,75mm	98x60mm	EA W204B-NLW
4x40	4,89mm	190x54mm	EA W404B-NLW
128x64	Grafik	93x70mm	EA W128B-6N2LW
160x128	Grafik	129x102mm	EA W160-7KHLW
240x64	Grafik	180x65mm	EA W240-6KH2LW
240x128	Grafik	144x104mm	EA W240-7KHLW

... weitere Displays auf Anfrage

displays can be used or industrial equipment. If operation around the clock is necessary, backlight can be switched off or dimmed easily. You do not need any inverter or interface unit. All displays are absolute compatible with market standard HD44780. Interface is 4- or 8- bit data bus. Optional you can have

all displays with integrated RS-232 interface. Also all graphic displays do have built-in graphic controller like KS0107, or T6963. We

offer them with and without RS-232 interface. Order your favorite display now! The whole range of various sizes is available ex stock usually.

## NEED MORE INFORMATIONS?

At our web site you'll find more informations and the complete data sheet: [www.lcd-module.de/blueline](http://www.lcd-module.de/blueline)

Or fax following inquiry:

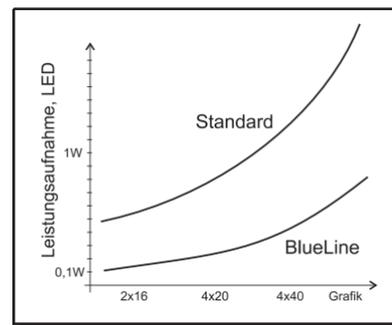
Company .....

Your name .....

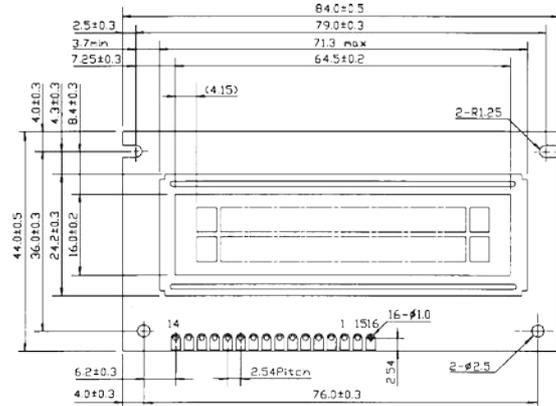
Street .....

Postal code / city .....

Phone / Fax .....



EA DIP162-DN3LW



all dimensions in mm

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