

DIP Series



The patent displays with assembling benefit

240x128
EA DIP240J-7KLW



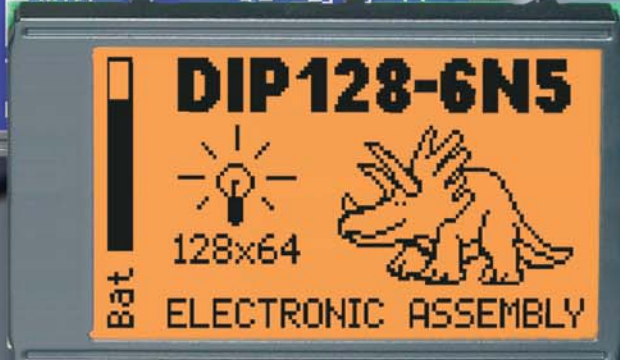
Graphic 128x64
EA DIP128-6N5LW



2x8
EA DIPS082-HNLED



2x8
EA DIPS082-HN



128x64
EA DIP128J-6N5LA

Graphic 122x32
EA DIP122-6NLED



1x8: EA DIP081-CHNLED

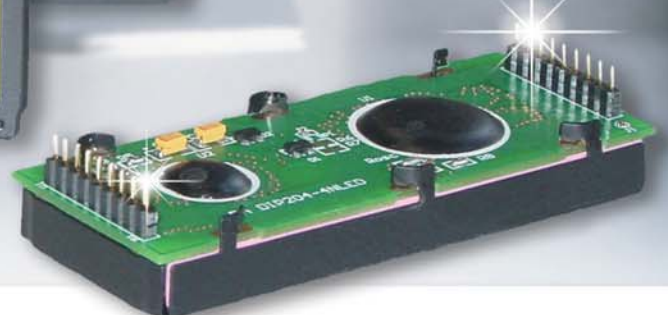
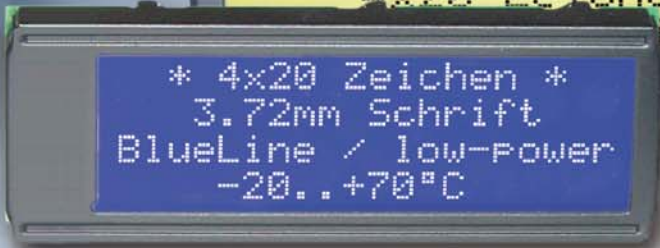
2x16
EA DIP162-DHNLED



4x20
EA DIP204-4HNLED



4x20
EA DIP204B-4NLW



ELECTRONIC ASSEMBLY
making things easy

SMART MOUNTING!

Assembling is done within 2 steps only: **place - solder - ready**. There are no more cable, screw or pin header necessary. Economy is double: first in development because there's no need to design any mechanical fixing; later while production is going you'll save time piece by piece for non-mounting the display: There's nothing to screw on anymore !

BIG DISPLAY - LESS DIMENSIONS

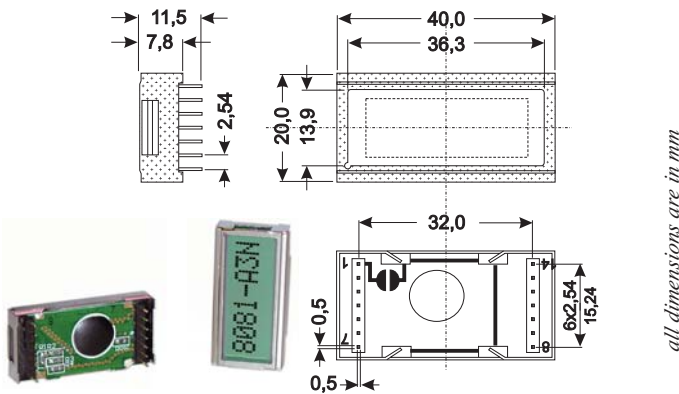
DIP modules are using the available space optimal. Or do you know any other display with well readable 5.05~ 11.48mm character height with such compact outline dimension? Traditional displays do have smaller type size at much bigger physical outline. How does it work? DIP modules do not need these senseless pcb border with mounting holes and through hole connector.

COMPATIBLE

All modules from DIP series do have standard controller built in. Character displays are compatible to HD 44780 in pinout and software and graphic displays do have SED 1520, KS 0107/0108 or T6963 controller onboard. By the way modules of same series can replace each other because pinout and mechanical dimensions are compatible - adequate software supposed. Later on an upgrade from character to graphic display is possible at any time. Most of DIP module series are featured with a LED backlight in yellow/green, blue-white, amber or black&white.

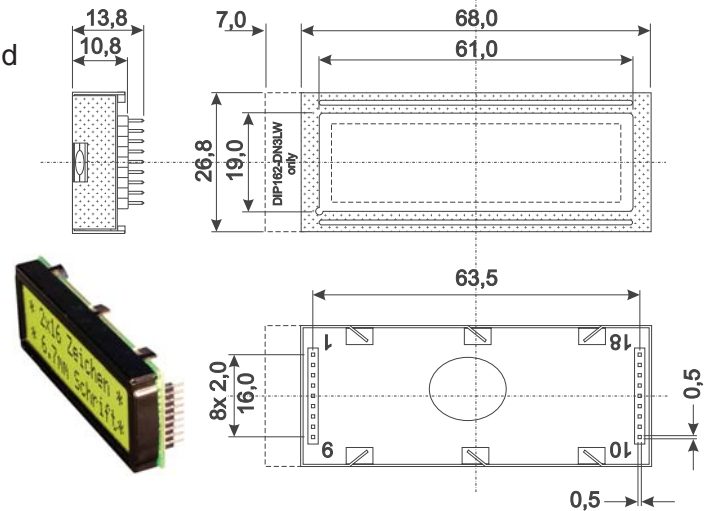
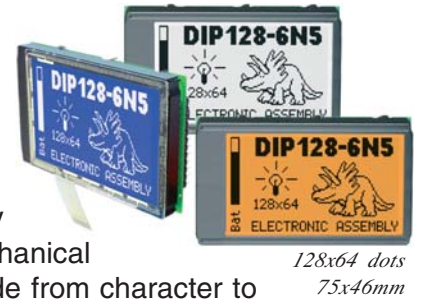
LOW POWER

Power consumption without backlight is typ. 1mA@5V and incl. blue-white backlight 60~160mA only.



| 40x20mm Series | | | | | | | |
|----------------|--------|-------|------------------------------|-----|---------|-------|-------------------|
| Pin | Symbol | Level | Function | Pin | Symbol | Level | Function |
| 1 | VSS | L | Power Supply 0V (GND) | 8 | D1 | H / L | Display Data |
| 2 | VDD | H | Power Supply +5V | 9 | D2 | H / L | Display Data |
| 3 | VEE | - | Contrast (about 0.3V / 1.2V) | 10 | D3 | H / L | Display Data |
| 4 | RS | H / L | H=Data / L=Command | 11 | D4 (D0) | H / L | Display Data |
| 5 | R/W | H / L | H=Read / L=Write | 12 | D5 (D1) | H / L | Display Data |
| 6 | E | H | Enable (falling edge) | 13 | D6 (D2) | H / L | Display Data |
| 7 | D0 | H / L | Display Data / Anode LED-B/L | 14 | D7 (D3) | H / L | Display Data, MSB |

| All modules at a glance | | | | |
|-------------------------|-----------|------------|------------------|------------------|
| Dimension | Character | Char. size | Backlight | Ordering code |
| 40x20mm | 1x8 | 7.15 mm | none | EA 8081-A3N |
| | 2x8 | 5.01 mm | yellow/green | EA DIP5082-HN |
| 68x27mm / 75x27mm | 1x8 | 11.48 mm | yellow/green | EA DIP081-CHNLED |
| | 2x16 | 6.68 mm | yellow/green | EA DIP162-DHNLED |
| | | | blue-white | EA DIP162-DN3LW |
| | 4x20 | 3.73 mm | yellow/green | EA DIP204-4HNLED |
| | | | black&white | EA DIP204J-4NLW |
| | 122x32 | Graphic | blue-white | EA DIP204B-4NLW |
| yellow/green | | | EA DIP122-5HNLED | |
| 75x46mm | 128x64 | Graphic | blue-white | EA DIP122B-5NLW |
| | | | amber | EA DIP122J-5NLA |
| | | | black&white | EA DIP128J-6NSLW |
| | 4x20 | 6.45 mm | blue-white | EA DIP128-6NSLW |
| | | | amber | EA DIP128J-6NSLA |
| | | | black&white | EA DIP204J-6NLW |
| 113x70mm | 240x128 | Graphic | blue-white | EA DIP204B-6NLW |
| | | | black&white | EA DIP240J-7KLW |
| | | | amber | EA DIP240B-7KLW |



| 68x27mm / 75x27mm Series | | | | | | | |
|--------------------------|--------|-------|----------------------------|-----|---------|-------|---------------------------|
| Pin | Symbol | Level | Funktion | Pin | Symbol | Level | Funktion |
| 1 | VSS | L | Stromversorgung 0V (GND) | 10 | D8 | H / L | Display Data |
| 2 | VDD | H | Stromversorgung +5V | 11 | D4 (D0) | H / L | Display Data |
| 3 | VEE | - | Kontrastspg. (ca. 0V) | 12 | D5 (D1) | H / L | Display Data |
| 4 | RS | H / L | Umschaltung Befehl / Daten | 13 | D6 (D2) | H / L | Display Data |
| 5 | R/W | H / L | H=Read, L=Write | 14 | D7 (D3) | H / L | Display Data, MSB |
| 6 | E | H | Enable (fallende Flanke) | 15 | - | - | frei (siehe EA DIP122-5N) |
| 7 | D0 | H / L | Display Data, LSB | 16 | - | - | frei (siehe EA DIP122-5N) |
| 8 | D1 | H / L | Display Data | 17 | A | - | LED-Bel. + (RV erförd.) |
| 9 | D2 | H / L | Display Data | 18 | C | - | LED-Bel. - |

NEED MORE INFORMATIONS ?

At our web site you'll find more informations and a complete user manual: www.lcd-module.de/dip
Or fax the following inquiry:

Please fax an offer for
Part number / Quantity

Comany name

Your name

Street

Postal Code / City

Phone / Fax

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making things easy

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