Customized 7 Segment LCD Display HTN Blue 5V LCD Screen With PCB Board

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO90001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-47WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH

Product Specification

- View Area: 54(W)* 19(H) Mm
- Duty: 1/4
- Customized: Customized
- Polarizer Type: Transmissive
- Display Type: Segment
- Backlight: White
- Operating Voltage: 5V
- Working: -10 To 60
- Highlight: **custom HTN blue 7 segment LCD**, **5V LCD screen with PCB**, **7 segment LCD display with warranty**

Our Product Introduction

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Product Description

Customized 7 Segment LCD Display HTN Blue 5V LCD Screen With PCB Board

Detail Information

LCD Type:	HTN, Negative
Viewing Angle:	12 O'clock
Operating Temperature:	-20~+70
Voltage:	5.0V
Backlight:	White

Detailed Parameters:

Module Size	Customized	Display mode	HTN, Negative
LCD viewing area	54(W)* 19(H) mm	Polarizer type	Transmissive
Driver IC	/	LED backlight	White
Drive method	1/4 Duty, 1/3 Bias	Working voltage	5.0V
Viewing angle	12 O'clock	Connection Way	Rubber strips
Operate temperature	-10 ~+60	Storage temperature	-20~+70

Advantages

Simple structure, low cost

It is composed of only 7 basic line segments, with a simple production process. Compared to dot matrix LCD or OLED, its manufacturing cost is lower, making it suitable for large-scale popularization.

For example, low-cost devices such as ordinary electronic calculators and kitchen timers almost all use 7-segment liquid crystal displays.

Extremely low power consumption

The liquid crystal itself does not emit light. It relies on external light sources (such as ambient light) or backlight (usually LED), and during operation, it only requires a weak current to drive the liquid crystal molecules to deflect. The power consumption is much lower than that of LED digital tubes.

With a button battery, it can work for a long time (such as electronic watches can last for several years), especially suitable for portable and low-power devices.

Clear display, good visibility

Under normal lighting, the digital display of liquid crystal has high contrast and clear characters, and there is no "irritating" problem of LED digital tubes. The visual comfort is better.

After some products are equipped with backlight, they can also display clearly in dark environments, meeting the needs of different scenarios.

Compact in size, easy to integrate

The 7-segment structure design is compact. A single digit module can be made very small (such as with a diameter of a few millimeters), making it easy to integrate into small electronic devices, saving space.

For example, the time display of smart wristbands and the reading window of small multimeters all take advantage of its small size.

Long lifespan, high stability

The lifespan of liquid crystal materials and driving circuits is long. Under normal use, they are not easily damaged, and their vibration and impact resistance is better than mechanical display components (such as mechanical counters).

There are no filament or electrode aging problems, high stability, and low maintenance costs.

Disadvantages

Display content is limited.

Only 0-9 numbers and a few simple symbols (such as “-” and “.”) can be displayed. Letters, Chinese characters or complex

graphics cannot be shown. The functional limitations are significant.
For example, it cannot be used in devices that require text display (such as mobile phones, computer screens).
Dependent on light source, visibility is poor in dark places (without backlight)
The 7-segment LCD without backlight cannot display at all in dark environments and must rely on ambient light; even with backlight, its brightness and color expression are far inferior to self-luminous display technologies such as OLED.
Narrow viewing angle
LCD displays have a viewing angle issue. When viewed from the side or at an inclined angle, display blurring, contrast reduction, or even invisibility may occur. The viewing angle range is usually less than 120°.
In contrast, LCDs with OLED or IPS materials have wider viewing angles and are more applicable.
Performance declines in low temperatures
The activity of liquid crystal molecules is greatly affected by temperature. In low-temperature environments (such as below -10°C), response speed slows down, and display delays or freezes may occur; in extreme low temperatures, the display function may even be lost.
Unable to achieve dynamic effects
Due to the fixed structure, only static numbers can be displayed through the combination of segment on and off. Dynamic effects such as animations and gradients cannot be achieved, and the interactivity is poor.

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