

7 Segment LCD Display BTN Negative White Digits HT1621 Driver PIN Connect

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

- Driver Method: 1/4 Duty, 1/3 Bias
- Supply Voltage: 5V
- Production Capacity: 10000 PC/monthes
- Working: 0 To 50
- Lcd Type: TN Negative, Transmissive
- Polarizer Type: Transmissive
- Connector: PIN, 36 Numbers
- Module Size: 78.6(W)* 60.0(H)* 7.1(T) Mm
- Highlight: **7 segment LCD display HT1621 driver, negative white digits LCD display, BTN PIN connect LCD display**



More Images



Product Description

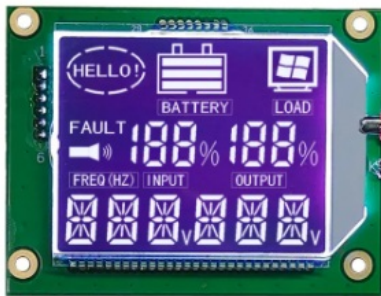
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Detail Information

LCD Type:	BTN, Negative
Viewing Angle:	12 O'clock
Operating Temperature:	0~+50
Voltage:	5.0V
Driver IC:	HT1621
Connector:	PIN

Detailed Parameters:

NO.	ITEM	SPECIFICATIONS
1	LCD Type	TN negative, transmissive
2	Viewing Angle	12 O'clock
3	Drive Method	1/4 Duty, 1/3 Bias, 5.0V
4	Operating Temperature	0~+50
5	Storage Temperature	-10~+60
6	Connector	PIN, 36 numbers
7	Module Size	78.6(W)* 60.0(H)* 7.1(T) mm
8	LCD View Area	54(W)* 43(H) mm



Advantages

Simple structure, low cost

It is composed of only 7 basic lines, with a simple production process. Compared to dot matrix LCD or OLED, it has a lower manufacturing cost and is 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 size, easy integration

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), which is convenient for integration into small electronic devices and saves 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 shock resistance performance is better than mechanical display components (such as mechanical counters).

There are no filament or electrode aging problems, high stability, and very 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 a dark environment and must rely on ambient light; even with backlight, its brightness and color expression ability are far inferior to OLED and other self-luminous display technologies.

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 stutters may occur; in extreme low temperatures, the display function may even be lost.

Dynamic effects cannot be achieved

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.

Summary

The 7-inch LCD display, due to its advantages such as low cost, low power consumption, and simple structure, holds a significant position in the digital display field (especially in scenarios involving simple numerical readings). However, its single-function and limited display capabilities prevent it from meeting complex display requirements. With the advancement of technology, it has gradually been replaced by dot matrix LCDs and OLEDs in high-end devices. Nevertheless, in the basic digital display scenarios with low cost and low power consumption, it still retains its irreplaceable value.

Major Customers (1)



Major Customers (2)



Dongguan Bibuke Electronic Technology Co., Ltd.



+8613711912723



Jack@smartwinlcd.cn



lcdtftscreen.com

Shangyu Commercial Centre Chang'an, Dongguan, Guangdong, China 523881