Customized 7 Segment LCD Module LCD Display HT1623 For Meter Box

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH

Product Specification

- Storage Temp: -20ºC-+70ºC
- Display Mode: FSTN Positive, Transmissive
- Backlight Color: White
- Transport Package: Carton/Pallet
- Operating Voltage: 3.3V
- Interface Type: Pin
- Display Technology: LCD
- Production Capacity: 100000 PC/monthes
- Highlight: **customized 7 segment LCD module**, **HT1623 LCD display for meter box**, **7 segment LCD display with warranty**

Product Description

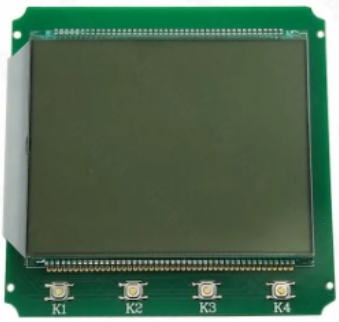
Customized 7 Segment LCD Module LCD Display HT1623 For Meter Box

Detail Information

LCD Type:	FSTN, Positive
Polarizer Type:	Transmissive
Viewing Angle:	9 O'clock
Operating Temperature:	-20~+70
Drive Voltage:	3.3V
Connector:	COB+PIN+BL

Product Description

NO.	ITEM	SPECIFICATIONS
1	LCD Type	FSTN positive, Transmissive
2	Viewing Angle	9 O'clock
3	Drive Method	1/8 Duty, 1/4 Bias, VDD=3.3V
4	Operating Temperature	-20~+70
5	Storage Temperature	-30~+80
6	Connector	PIN
7	Backlight	White LEDs
8	Driver IC	2*HT1623(DIE)
9	Dimension	91.5(W)* 90.0(H)* 7.0(T) mm
10	View Area	77(W)* 60(H) mm



Segment LCD Applications:

1. Medical Equipment

- Monitors
- Portable Medical Devices

2. Industrial and Commercial Use

- Control Panels
- Point-of-Sale Systems

3. Clocks and Watches

- Digital Clocks
- Wristwatches

4. Smart Home Devices

- Smart Thermostats
- Smart Speakers and Assistants

5. Appliances

- Microwaves and Refrigerators
- Washing Machines

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.
The viewing angle is narrow
LCD displays have viewing angle issues. 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 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.

Dongguan Bibuke Electronic Technology Co., Ltd.

+8613711912723 Jack@smartwinlcd.cn lcdtftscreen.com

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