

17 Digits 7 Segment Custom LCD Module with Transflective LCD Display and I2C Serial Interface for Energy Meter

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

- Driving Voltage: 2.4~5.5V
- Driving Method: 1/4 Duty 1/3 Bias
- Backlight: Optional (LED Backlight)
- Viewing Angle: 12 O'clock
- Customization Options: Customizable
- Operating temperature range: -40~+70
- Display type: Segment LCD
- Connection Way: Pin / Zebra
- Highlight: **17 Digits 7 Segment Custom LCD Module, Transflective LCD Display Energy Meter, I2C Serial Interface Segment LCD Display**



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Product Description

17-Digit 7-Segment Custom LCD Module

Metal Pin Transflective LCD Display with Cog I2C Serial Interface for Energy Meter Applications

Product Specifications

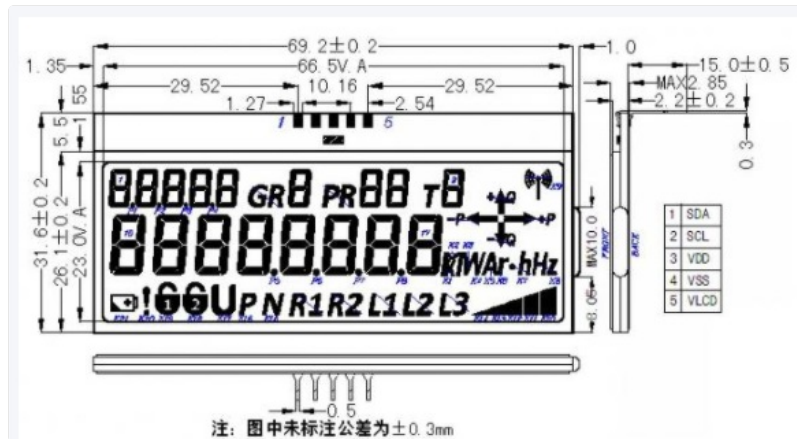
Type	STN Display
Polarizer Mode	Transmissive
Display Mode	Positive
Viewing Angle	12 O'clock
Connector	Pin / Zebra
Driving Condition	5.0 V

Technical Details

Application	Energy LCD Module
Display Content	17 digits + 8 decimal points + 33 DOS prompts
Operating Voltage	2.4~5.5V
Operating Current	<18 μ A (3.0V)
Driving Mode	1/3BIAS, 1/4DUTY
Character Height	8.7mm, 5.5mm
Environmental Humidity	<85%
Viewing Angle	6:00
Display Mode	Transflective Positive
Interface	Serial
Operating Temperature	-40~+70
Storage Temperature	-50~+80

Additional Information

OEM/ODM	Accepted
System Design	LCD module related system software and hardware design accepted
Warranty	12 months free, paid warranty lifetime
Packaging	One module in a bag, bags in small carton foam protecting, small carton in big carton
Carton Size	41.5*36*50cm
Sample Lead Time	3-7 working days
Customize Lead Time	15-30 working days
Production Lead Time	12 days for available designs, Customized: 35~40 days



Product Features

Display Specifications

Utilizes a 17-bit 7-segment custom liquid crystal module capable of displaying extensive digital information and accurately presenting various electrical energy parameters including cumulative electricity, real-time power, and peak-valley electricity.

Display Type

Typically features FSTN (Fringe Stacked Thin Film Compensation) liquid crystal display technology with wide viewing angles and high contrast ratio for clear data visibility from different angles.

Connection Interface

Equipped with metal pins and gear design for reliable circuit board connection. Supports I2C serial communication interface for efficient data transmission with electricity meter main control chips.

Transparency Characteristics

Features transreflective polarizing films that utilize natural light under external illumination and provide clear backlit display in low-light conditions. Backlight is typically white with low power consumption and excellent display performance.

Energy Meter Functions

Measurement Principle

Collects real-time voltage and current signals through internal sensors, processed by electricity meter chips to calculate consumption values with accurate measurement of active and reactive electricity.

Communication Capabilities

Supports I2C serial communication protocol for data interaction with external devices, enabling remote meter reading and electricity monitoring functions.

Intelligent Features

Includes time-of-use rate functionality to measure electricity consumption across different time periods based on pricing policies, helping users optimize electricity usage timing and reduce costs.

Applications

Power Metering

Primarily used for residential, commercial, and industrial electricity measurement, providing accurate consumption data for billing settlement.

Smart Grid Integration

Serves as a critical component in smart grid systems, enabling real-time data communication with other grid devices for monitoring, load control, and improved grid efficiency and reliability.

Energy Management

Enables users to analyze electricity usage patterns and energy consumption data, facilitating informed energy-saving decisions and efficient energy resource management.

Industrial Automation

Monitors equipment power consumption in industrial production environments, providing essential data for energy cost accounting, production efficiency analysis, and process optimization.

Frequently Asked Questions

I want the LCD display 8 digits and the outline size is 65x30x2.8mm. Is this possible?

Yes, we can accommodate this request. Please provide your specifications or drawing. If you don't have specifications, you can send samples for evaluation. We can recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but it's too large. Do you have smaller sizes? Also, the display content needs minor modifications.

For segment-type LCD modules requiring outline size or display content modifications, we need to create a new LCD glass module with custom tooling.

This LCD display is HTN type, but I want STN type. Can you make this change?

Yes, we can modify the display type according to your specifications.

I want to customize a new LCD module. Can you do this?

Absolutely. Please provide your drawing or specifications including outline size, glass thickness, polarizer type, display type, connector mode, storage and operating temperatures, supply voltage, viewing direction, and drive conditions.

What is the lead time for tooling?

Typically 15 to 25 days after drawing confirmation and tooling payment. We will provide exact timelines upon drawing approval.

Can you send us samples for evaluation?

Yes, sample orders are available for testing and verification.

What is the lead time for production?

For standard products in stock, lead time is one day after payment. For mass production of custom designs, lead time is approximately 15-30 days. We will notify you promptly if we can complete orders ahead of schedule.



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