

3.12 Inch 256x64 Resolution OLED Display Module with SPI/Parallel/I2C Interface

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

- Storage Temperature: -40°C To +85°C
- Interface: Plug-in Connection
- Viewing Angle: All Viewing Angles
- Size: 3.12 Inch
- Pin Number: 30 Pins
- Supply Voltage: 2.4 - 3.5V
- Pixel Pitch: 0.30 (W) X 0.30 (H)
- Resolution: 256x64
- Highlight: **3.12 inch OLED Display Module, 256x64 Resolution OLED Screen, SPI/Parallel/I2C Interface OLED Panel**



Product Description

3.12" 256*64 Dots OLED Display Module with SPI/Parallel/I2C Interface

Organic light-emitting diodes (OLEDs) represent next-generation display technology, delivering brighter, clearer images with faster response times. This monochrome OLED display features 256 * 64 individual dots and offers multiple interface options including default SPI, parallel, and I2C connectivity.

Product	3.12" Inch Passive OLED
Resolution	256*64 Pixels Resolution
Interface	Parallel, SPI Optional
Display Mode	Passive Matrix
Display Color	White, Yellow
Optics	All Viewing Angles
Active Area	76.78 (W) * 19.18 (H) mm
Outline Dimensions	88.00 (W) * 27.80 (H) mm
Pixel Pitch	0.30 (W) * 0.30 (H) mm
Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +85°C
Supply Voltage	2.4 - 3.5V
Module Connecting Type	Plug-in Connection
Driver IC	SSD1322
Pin Number	30 Pins
IC Package Type	COF
Duty	1/64





Technical Specifications

Size: Diagonal active area measures 3.12 inches. Module dimensions approximately 88.00mm * 27.80mm with active area of 76.78mm * 19.18mm.

Resolution: 256*64 pixel resolution provides excellent clarity for text, icons, and basic graphics on compact displays.

Display Characteristics: OLED technology enables self-luminous operation without backlight, delivering high contrast ratio up to 20,000:1 and wide viewing angles for clear visibility from any perspective.

Interface Type: Supports SPI, parallel, and I2C interfaces for flexible integration with various microcontroller platforms including STM32, Arduino, and ESP32.

Driver Chip: Utilizes SSD1322 driver IC with built-in display RAM cache for efficient image data processing and reduced microcontroller load.

Operating Temperature: Wide operating range from -40°C to +80°C and storage range from -40°C to +85°C ensures reliable performance in diverse environmental conditions.

Appearance and Structure: Compact COF packaging with ZIF connectors facilitates easy integration with external circuits.

Application Areas

Industrial Control: Display real-time data for temperature, pressure, and voltage monitoring with high contrast visibility in industrial environments

Smart Wearables: Ideal for wristbands and electronic watches with low power consumption and clear outdoor readability

Medical Equipment: Used in portable detectors and glucose meters for clear display of test results and operation menus

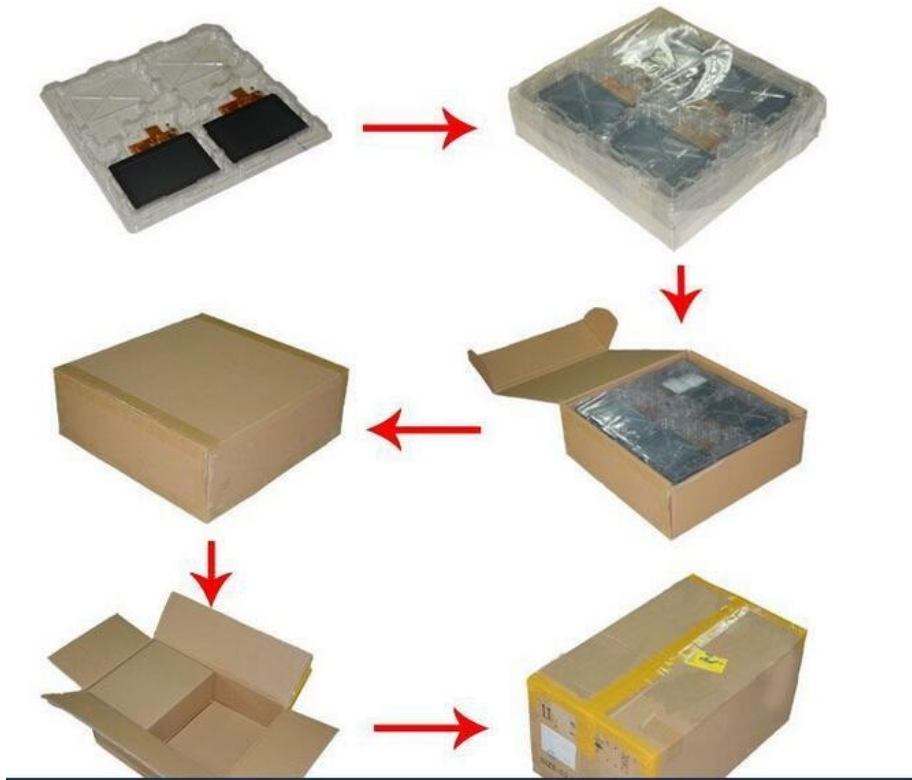
Smart Home: Serves as display interface for smart home controllers showing device status and operation menus

POS Systems: Integrated into cash registers and payment terminals for product information, transaction amounts, and operation prompts

DIY Projects: Popular among electronics enthusiasts for homemade scales, weather stations, and audio visualization devices with open-source driver support

Packaging & Shipping

Packaging: Carton boxes, cupboard, EPE, blister tray. Packaging methods customized according to product size and customer requirements, complying with international shipping standards.



Shipping: Express delivery via DHL, FedEx, EMS, UPS, air shipping, and sea shipping. Multiple shipping options available based on customer preference.

						
	2-7days	2-8days	2-7days	3-15days	2-5days	2-7days
Notice	<ol style="list-style-type: none"> EMS for Brazil, Russia and Remote areas . SF for Hong Kong, Taiwan, South Korea, Japan, Thailand, Singapore and Malaysia . Having logo product can't be sent by FEDEX . The Brazil want to use FEDEX/DHL , need to offer CNPJ / CPF to us ! 					
						



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