



## 2.66 Inch Four-Color E-Paper Display Module 152x296 SPI Reflective

### Basic Information

- Place of Origin: China
- Brand Name: chenghao optoelectronic
- Certification: RoHS & CE & FCC
- Model Number: CH026620E07
- Minimum Order Quantity: 100 pcs
- Price: Contact us for quotation
- Packaging Details: Standard Export Package
- Delivery Time: 7-15 work days
- Payment Terms: T/T
- Supply Ability: 300,000 pieces/month



### Product Specification

- Module No: CH026620E07
- Display Mode: Reflective Electrophoretic Display
- Screen Size: 2.66 Inch
- Resolution: 152(H) X 296(V)
- Viewing Direction: Ultra Wide Viewing Angle
- Screen Brightness: Reflective, No Backlight
- Module Interface: 4-Wire SPI / 3-Wire SPI
- FPC Pin Numbers: 24
- Operating Temperature: 0°C To +40°C
- Storage Temperature: -25°C To +60°C
- Module Size: 36.3 X 86.82 X 0.911 Mm
- Active Area Size: 30.704 X 60.088 Mm



### More Images



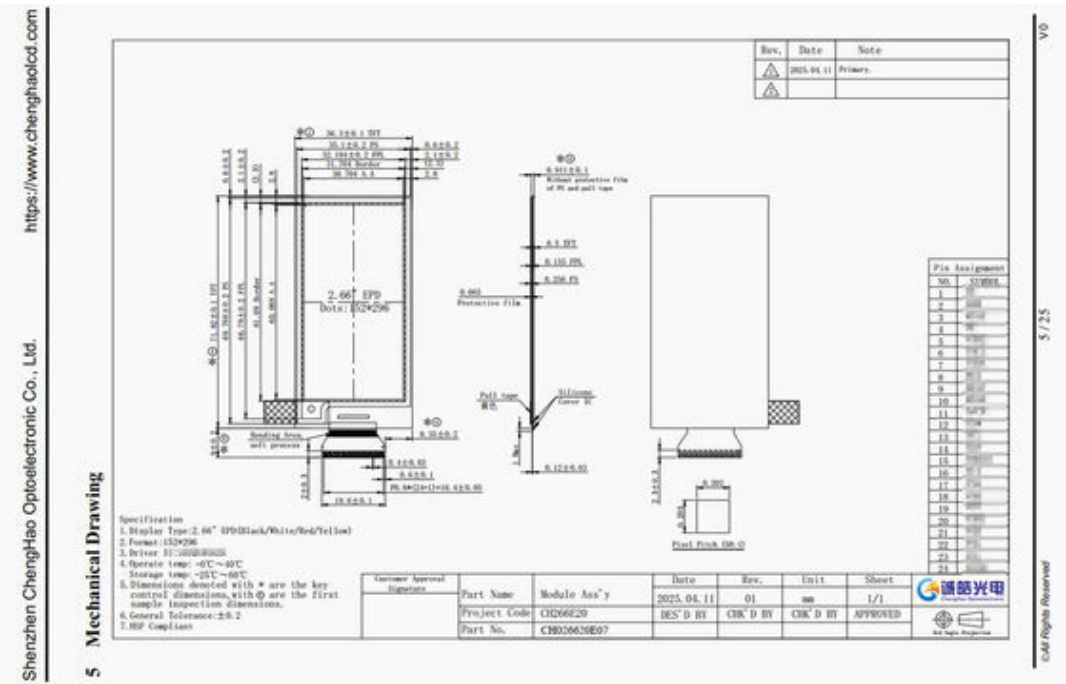
Product Description

The CH026620E07 is a 2.66-inch reflective four-color e-paper display module designed for low-power information panels and embedded display systems. It provides a 152 x 296 pixel matrix and displays black, white, red, and yellow images through an electrophoretic panel. The active area measures 30.704 x 60.088 mm, while the compact outline is 36.3 x 86.82 x 0.911 mm. The module supports 4-wire SPI and 3-wire SPI communication, an ultra-wide viewing angle, and an operating temperature range of 0°C to 40°C. Its reflective design needs no backlight, helping reduce power consumption for battery-powered and continuously visible applications. Integrated display RAM and timing control simplify system design. Typical uses include electronic labels, shelf signage, industrial information boards, smart home control panels, and portable instruments. The module can be customized with FPC and interface options for production requirements. Stable image retention and clear four-color output make it suitable for low-update-rate displays.

Product Features

- 2.66-inch reflective electronic paper display with 152 x 296 resolution and four-color output.
- Supports 4-wire SPI or 3-wire SPI communication for embedded system integration.
- Ultra-wide viewing angle and low power consumption without a backlight.
- Integrated display RAM, timing controller, and DC-DC boost circuitry.
- Stable operation from 0°C to 40°C and storage from -25°C to 60°C.

Product Drawing



Detailed Specifications

| Item      | Specification |
|-----------|---------------|
| Module No | CH026620E07   |

| Item                  | Specification                      |
|-----------------------|------------------------------------|
| Display Mode          | Reflective electrophoretic display |
| Screen Size           | 2.66 inch                          |
| Resolution            | 152 (H) x 296 (V)                  |
| Display Colors        | Black / White / Red / Yellow       |
| Active Area Size      | 30.704 x 60.088 mm                 |
| Module Size           | 36.3 x 86.82 x 0.911 mm            |
| Pixel Pitch           | 0.202 x 0.203 mm                   |
| Pixels Per Inch       | 125                                |
| Module Interface      | 4-Wire SPI / 3-Wire SPI            |
| FPC Pin Numbers       | 24                                 |
| Viewing Direction     | Ultra wide viewing angle           |
| Screen Brightness     | Reflective, no backlight           |
| Operating Temperature | 0°C to +40°C                       |
| Storage Temperature   | -25°C to +60°C                     |
| Touch Type            | No touch                           |
| Module Weight         | 4.8 ±10% g                         |

## Customized Introduction

Customization is available around the module's mechanical and interface requirements. FPC shape, length, pin assignment, and connector layout can be adapted to the enclosure and assembly process. The communication interface can be configured for 3-wire or 4-wire SPI operation. For reflective e-paper designs, optical requirements are discussed in terms of reflectance and color performance rather than a conventional backlight brightness level. Optional touch integration can be evaluated according to the display stack and application environment. Anti-glare surface treatment and cover glass solutions can be specified when the front panel needs added protection or improved readability under ambient light. Mechanical dimensions, active-area alignment, operating conditions, and packaging requirements should be confirmed with the engineering team before production. Samples can be reviewed against the agreed drawing and interface definition. This approach supports stable integration into electronic labels, instruments, industrial controls, and other low-power display products.

## Application Cases

Electronic shelf labels use the black, white, red, and yellow output to separate prices, product names, and status marks. The reflective image remains visible without a backlight.

Industrial information boards benefit from the ultra-wide viewing angle and stable 152 x 296 layout for operating instructions and equipment status.

Smart home control panels can use the low-power display for room settings, schedules, and mode indicators. The compact module fits wall-mounted control enclosures.

Portable measurement instruments use the SPI interface and low-update-rate image retention to present readings and warning states while conserving battery power.

**Q1: What type of display is the CH026620E07?**

It is a 2.66-inch reflective electrophoretic display module with a 152 x 296 pixel matrix and four-color output.

**Q2: Which communication interfaces are supported?**

The module supports both 4-wire SPI and 3-wire SPI communication.

**Q3: Does the display require a backlight?**

No. The reflective electronic paper panel does not use a backlight, which supports low power operation.

**Q4: What are the operating and storage temperatures?**

The operating temperature range is 0°C to 40°C, and the storage temperature range is -25°C to 60°C.



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