



DISPLAY'S NEWSPAPER

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1. 2.99" 268x800 On-Cell Touch Panel TFT Display

WF0299ATYAC2MNR0 is a portrait mode 2.99-inch stretched bar type TFT LCD with a resolution of 268x800 dots and an On-Cell touch panel (capacitive touch). On-Cell technology involves embedding the touch sensor into the LCD module, either on the color filter substrate or between the polarizers. One of the main advantages of On-Cell touch technology is the reduced thickness, as the touch layer is directly integrated into the display panel, eliminating the need for an additional touch layer and thereby reducing the overall thickness of the display.

The module comes with an On-Cell capacitive touch screen with a CST328 driver IC, supporting I2C interface and 2-point touch functionality. This integration enhances the user experience by enabling precise and responsive touch input, while the I2C interface facilitates easy communication with the device's control system.

This On-Cell touch TFT display utilizes IPS technology, providing wider viewing angles of 80 degrees to the left, right, up, and down. It boasts a typical brightness of 530 nits and a contrast ratio of 1200:1 (both typical values). The TFT module integrates the GC9503 driver IC, which supports the MIPI DSI serial interface (2 lanes).

This bar-type TFT module is ideal for use in electronic door locks, massage chair control panels, and other devices that require a stretched display screen.

Model No. : **WF0299ATYAC2MNR0**

- ▶ Size : 2.99-inch
 - ▶ Resolution : 268 × 800 dots
 - ▶ Module Dimensions : 26.52 × 78.2 × 2.46 mm
 - ▶ Active Area : 24.12 × 72 mm
 - ▶ Viewing Angle : 80/80/80/80 (IPS)
 - ▶ Driver IC : GC9503
 - ▶ Interface : MIPI DSI
 - ▶ Touch Panel : Projected Capacitive
- Touch Panel
- ▶ Surface : Glare
 - ▶ Brightness : 530 cd/m²
 - ▶ Operating Temperature : -20~+70°C



2. 10.4" 1024x768 HDMI (DVI) TFT LCD Display with PCAP

The WF104GSWFMLHBV is a high-brightness 1024x768 HDMI TFT-LCD display with a projected capacitive touch panel (PCAP). This module features a diagonal size of 10.4 inches and an aspect ratio of 4:3. Featuring the TFP401 Controller IC, the WF104GSWFMLHBV comes with a control board that exclusively supports the HDMI signal interface (DVI) for the Raspberry Pi system. Specifically designed for the Raspberry Pi platform, this TFT module includes a 40-pin GPIO connector for seamless integration. Additionally, the WF104G HDMI series supports PWM (Pulse Width Modulation) functionality for adjusting LED backlight brightness.

The WF104GSWFMLHBV adopts an IPS panel, providing a wider viewing angle of 80 degrees (typical value) in all directions: Left: 80 / Right: 80 / Up: 80 / Down: 80. It boasts a brightness of 800 nits (typical value) and a contrast ratio of 1000:1 (typical value). Equipped with a projected capacitive touch panel (PCAP) featuring the ILI2511 IC, it supports a USB interface and offers 1/ 2/ multi-point touch capabilities. The 10.4-inch 1024x768 HDMI display module of the WF104GSWFMLHBV is suitable for use in control panels for infotainment systems in cars, industrial control systems, boat dashboards, and home security.

Model No. : **WF104GSWFMLHBV**

- ▶ Size : 10.4-inch
- ▶ Resolution : 1024 × 768 dots
- ▶ Module Dimensions : 240.6 × 190.8 × 30.83 mm
- ▶ Active Area : 210.432 × 157.824 mm
- ▶ Viewing Angle : 80/80/80/80 (IPS)
- ▶ Controller IC : TFP401
- ▶ Interface : HDMI (only for DVI)
- ▶ Touch Panel : Projected Capacitive Touch Panel
- ▶ Surface : Glare
- ▶ Brightness : 800 cd/m²
- ▶ Operating Temperature : -30~+80°C



3. 12.1" 1280x800 LVDS IPS TFT LCD Display with PCAP

WF121BTXAPLNBA is a 12.1-inch color TFT LCD module boasting a resolution of 1280x800 dots and a projected capacitive touch panel (PCAP). Featuring a built-in ILI2132 IC, its PCAP touch panel supports 10-point touch functionality. This TFT display is equipped with the EK77526AH1205A driver IC, designed to support LVDS Interface.

WF121BTXAPLNBA utilizes IPS technology to deliver wider viewing angles, offering typical values of 89 degrees in all directions (left, right, up, and down), with an aspect ratio of 16:9.

With its specifications, the 12.1-inch color TFT LCD display is highly suitable for various applications, including medical equipment, fishfinders, industrial monitoring devices, home security systems, and more.

Model No. : **WF121BTXAPLNBA**

- ▶ Size : 12.1-inch
- ▶ Resolution : 1280 × 800 dots
- ▶ Module Dimensions : 308.0 × 214.1 × 14.2 mm
- ▶ Active Area : 261.12 × 163.2 mm
- ▶ Viewing Angle : 89/89/89/89 (IPS)
- ▶ Driver IC : EK77526AH1205A
- ▶ Interface : LVDS
- ▶ Touch Panel : Projected Capacitive Touch Panel
- ▶ Surface : Glare
- ▶ Brightness : 300 cd/m²
- ▶ Operating Temperature : -20~+70°C



4. 15.6" 1920x1080 High Resolution TFT LCD Display with PCAP

WF1560BSYAA5ENB0 is a 15.6-inch high-resolution TFT LCD display module with a resolution of 1920x1080 dots and PCAP touch functionality. This high-resolution TFT LCD display module features a built-in TC2055G driver IC and supports eDP interface. It utilizes IPS technology to deliver a wider viewing angle of 80 degrees in all directions (Left: 80 / Right: 80 / Up: 80 / Down: 80).

With a high contrast ratio of 1500:1 (typical value) and a brightness of 800 nits (typical value), this model ensures vivid and clear visuals, enhancing the user experience. Additionally, the module adopts a projected capacitive touch panel (PCAP) with ILI2511 IC, which supports USB and I2C interfaces and 10-point touch, further elevating its usability and functionality. This makes it suitable for a wide range of applications. From industrial machinery and equipment to HMI (Human-Machine Interface) systems, POS (Point of Sale) terminals, and outdoor vending systems, this high-resolution TFT LCD display module offers excellent performance and reliability.

Model No. : **WF1560BSYAA5ENB0**

- ▶ Size : 15.6-inch
- ▶ Resolution : 1920 × 1080 dots
- ▶ Module Dimensions : 393.8 × 245.9 × 12.2 mm
- ▶ Active Area : 344.16 × 193.59 mm
- ▶ Viewing Angle : 80/80/80/80 (IPS)
- ▶ Driver IC : TC2055G
- ▶ Interface : eDP
- ▶ Touch Panel : Projected Capacitive Touch Panel
- ▶ Surface : Glare
- ▶ Brightness : 800 cd/m²
- ▶ Operating Temperature : -20~+70°C



5. 2.55-inch 206x36 COG OLED Display Module (SSD1362)

Discover the WEO020636A series, Winstar's first 2.55-inch OLED module with a resolution of 206 × 36 dots. This COG (Chip on Glass) graphic OLED display features an outline dimension of 70.77 × 15.14 mm and an active area of 63.84 × 11.14 mm, delivering precise visual representation.

Key Features:

- Integrated IC: SSD1362 IC supports I2C and 3-wire/4-wire SPI interfaces.
- Power Supply: Logic voltage ranges from 1.65V to 3.5V; display power operates at 10V to 12.5V (typical 12V) with a 1/36 duty cycle.
- Grayscale Support: 4-bit (16-level) grayscale enhances image depth and detail.
- Contrast Ratio: High 10,000:1 ratio ensures vivid image clarity.
- Temperature Range: Operational from -40°C to +80°C, suitable for diverse environments.

Versatile Applications:

The WEO020636A OLED display is ideal for applications including portable DAC (Digital-to-Analog Converter) headphone amplifiers, portable power stations, and radio applications. Its compact size and exceptional visual clarity make it suitable for mobile devices, industrial equipment, medical devices, and consumer electronics. The display's COG structure and compatibility with SPI and I2C interfaces facilitate seamless integration into different digital environments.

Model No. : **WEO020636A**

- ▶ Structure : COG
- ▶ Diagonal Size : 2.55-inch
- ▶ Dot Matrix : 206 × 36 dots
- ▶ Module Dimensions : 70.77 × 15.14 × 2.01 mm
- ▶ Active Area : 63.84 × 11.14 mm
- ▶ Drive Duty : 1/36 Duty
- ▶ IC : SSD1362
- ▶ Interface : SPI,I2C
- ▶ Display Color : White
- ▶ Operating Temperature : -40~+80°C
- ▶ Support Grayscale



6. 1.54-inch 160x80 COG OLED Display Module (SSD1320)

The WEO016080A is a 1.54-inch COG graphic OLED display featuring a resolution of 160 × 80 dots. It measures 43.5 × 22.5 mm with an active area of 35.02 × 17.5 mm, and its slim profile of 1.41 mm is attributed to its COG structure.

Equipped with the SSD1320 IC, this module supports 6800/8080 8-bit, 4-wire SPI, and I2C interfaces. It offers 4-bit (16 Levels) grayscale and achieves an impressive contrast ratio of 10,000:1.

Ideal for a variety of applications including Networking Products, USB Testers, Smart Watches, Gaming Keyboards, and Smart Healthcare Devices such as oximeters and skin analyzers, the WEO016080A enhances display quality with its crisp and vibrant screen.

With its high resolution (160x80 dots) and low power consumption, this OLED display module is perfectly suited for performance-driven and efficient applications.

Model No. : **WEO016080A**

- ▶ Structure : COG
- ▶ Diagonal Size : 1.54-inch
- ▶ Dot Matrix : 160 × 80 dots
- ▶ Module Dimensions : 43.5 × 22.5 × 1.41 mm
- ▶ Active Area : 35.02 × 17.5 mm
- ▶ Drive Duty : 1/80 Duty
- ▶ IC : SSD1320
- ▶ Interface : 6800,8080,SPI,I2C
- ▶ Display Color : White
- ▶ Operating Temperature : -40~+80°C
- ▶ Support Grayscale



7. 1.54-inch 160x80 COG OLED Display Module (SSD1320)

The WEO016080A is a 1.54-inch COG graphic OLED display featuring a resolution of 160 × 80 dots. It measures 43.5 × 22.5 mm with an active area of 35.02 × 17.5 mm, and its slim profile of 1.41 mm is attributed to its COG structure.

Equipped with the SSD1320 IC, this module supports 6800/8080 8-bit, 4-wire SPI, and I2C interfaces. It offers 4-bit (16 Levels) grayscale and achieves an impressive contrast ratio of 10,000:1.

Ideal for a variety of applications including Networking Products, USB Testers, Smart Watches, Gaming Keyboards, and Smart Healthcare Devices such as oximeters and skin analyzers, the WEO016080A enhances display quality with its crisp and vibrant screen.

With its high resolution (160x80 dots) and low power consumption, this OLED display module is perfectly suited for performance-driven and efficient applications.

Model No. : **WEO016080A**

- ▶ Structure : COG
- ▶ Diagonal Size : 1.54-inch
- ▶ Dot Matrix : 160 × 80 dots
- ▶ Module Dimensions : 43.5 × 22.5 × 1.41 mm
- ▶ Active Area : 35.02 × 17.5 mm
- ▶ Drive Duty : 1/80 Duty
- ▶ IC : SSD1320
- ▶ Interface : 6800,8080,SPI,I2C
- ▶ Display Color : White
- ▶ Operating Temperature : -40~+80°C
- ▶ Support Grayscale



8. 2.23-inch 128x32 COG OLED Display Module (SH1106) with PCB

The WEP012832N is a COG graphic OLED module with a PCB board, featuring a resolution of 128x32 dots and a diagonal size of 2.23 inches (active area: 55.016 × 13.096 mm). It includes a built-in SH1106 driver and supports communication via 6800 or 8080 parallel, 4-line SPI, and I2C interfaces. The logic power supply voltage ranges from 2.9V to 3.5V, with a typical value of 3.3V. It operates with a 1/32 duty cycle and features internal power boost and external power supply capabilities. The series is equipped with a metal frame and four screw holes, facilitating easy module installation, and offers a contrast ratio (typical value) of 10,000:1.

The WEP012832N series eliminates fixed pin headers, enabling semi-custom part numbers with varying pin lengths tailored to specific customer needs. The PCB design retains space for integrating capacitive touch panel modules without requiring redevelopment, ensuring flexibility to meet diverse customer demands seamlessly.

Ideal for applications such as voice recorders, blood glucose meters, MP3 players, mini radio, and medical instruments, the WEP012832N operates reliably in temperatures ranging from -40°C to +80°C, with storage temperatures extending from -40°C to +85°C.

Model No. : **WEP012832N**

- ▶ Structure : COG
- ▶ Diagonal Size : 2.23-inch
- ▶ Dot Matrix : 128 × 32 dots
- ▶ Module Dimensions : 66.5 × 35 × 9 mm
- ▶ Active Area : 55.016 × 13.096 mm
- ▶ Drive Duty : 1/32 Duty
- ▶ IC : SH1106
- ▶ Interface : 6800,8080,SPI,I2C
- ▶ Display Color : White, Yellow
- ▶ Operating Temperature : -40~+80°C
- ▶ Supports internal Charge Pump supply and external VCC supply



8. 0.91-inch 128x32 COG OLED Display Module (SH1106)

The WEO012832R series is a popular 0.91-inch COG graphic OLED module in the market. This module features a resolution of 128x32 dots and integrates the SH1106 IC, supporting an I2C interface. The IC also facilitates internal power boost and external power supply. With outline dimensions of 30 × 11.5 mm and an active area of 22.384 × 5.584 mm, the module is very lightweight due to its COG structure, measuring just 1.26 mm in thickness.

The logic power supply voltage ranges from 1.65V to 3.3V, with a typical value of 3.0V, and operates with a duty cycle of 1/32. Additionally, the module features a wide temperature range, reliably operating from -40°C to +80°C, with a storage temperature range of -40°C to +85°C.

This module is particularly suitable for various applications requiring compact and lightweight OLED displays. It is ideal for integrating into devices such as voice recorder, charging cables with embedded OLED displays and keychain lights featuring OLED displays, where space and visual clarity are paramount.

Model No. : **WEO012832R**

- ▶ Structure : COG
- ▶ Diagonal Size : 0.91-inch
- ▶ Dot Matrix : 128 × 32 dots
- ▶ Module Dimensions : 30 × 11.5 × 1.26 mm
- ▶ Active Area : 22.384 × 5.584 mm
- ▶ Drive Duty : 1/32 Duty
- ▶ IC : SH1106
- ▶ Interface : I2C
- ▶ Display Color : Sky Blue, White
- ▶ Operating Temperature : -40~+80°C
- ▶ Supports internal Charge Pump supply and external VCC supply



9. 7-inch 1024x600 with RGB Interface TFT Display

WF70A8SYAHDNN0 TFT LCD Display Module delivers exceptional performance across diverse applications. This 7-inch module features a high-resolution 1024 x 600 dots display and an active area of 154.2144 x 85.92 mm, ensuring clear and detailed visuals.

The WF70A8SYAHDNN0 utilizes TFT technology with a Normally Black, Transmissive LCD type and an IPS panel that provides wide 85/85/85/85-degree viewing angles, ensuring a vivid display experience. Its 16:9 aspect ratio, paired with a high brightness of 1100 cd/m² and a contrast ratio of 800:1, enhances visibility in various lighting conditions.

With EK79001HK-S + EK73215BCGA driver ICs and a 24-bit RGB interface, this module seamlessly integrates into UAV controllers, industrial equipment, medical devices, smart home systems, and multifunctional office equipment. WF70A8 series that is option in LVDS, MIPI and RGB interface depend on customer MCU request.

Model No. : **WF70A8SYAHDNN0**

- ▶ Diagonal Size : 7-inch
- ▶ Resolution : 1024 × 600 dots
- ▶ Module Dimensions : 169.9 × 103.4 × 5.6 mm
- ▶ Active Area : 154.2144 × 85.92 mm
- ▶ Viewing Angle : 85/85/85/85 (IPS)
- ▶ Driver IC : EK79001HK-S + EK73215BCGA
- ▶ Interface : RGB
- ▶ Touch Panel : Without Touch Panel
- ▶ Surface : Anti-Glare
- ▶ Brightness : 1100 cd/m²
- ▶ Operating Temperature : -20~+70°C



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