

# DWIN Products

ASIC Design, UART LCM, embedded system screen, medical-grade power supply, IoT, HDMI, touch screen, TFT LCD, cover glass, ODM solutions



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## T5L Chip



This series is suitable for different resolutions and UI functional requirements. It integrates high-speed graphics processing, JPEG hardware decoding, high-speed video memory, touch screen control, audio playback, digital signal processing in one, with the characteristics of high integration, excellent performance, convenient development competitive price and so on, has been widely used.

## T5F0 Chip



It uses a time-tested 8051 core, dual high-speed 8051 core architecture, built-in memory and Flash. It supports rich UI elements for IoT applications, including vector fonts, PNG images, MP3 audio, video streaming files, etc. Zero-code development for GUI interface, making application design extremely simple.

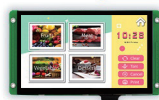
## TPS04 Chip



It supports capacitive touch screens with various structures such as GG, GP, GFF, GF, FF, single F and large sizes up to 21.5 inches. It adopts a completely different architecture and algorithm from traditional capacitive touch screen drivers. It requires no debugging with anti-interference ability, making it possible for capacitive touch screens to be widely popularized in industrial, medical, and IoT smart terminals.



## COB&COF UART



- COB: support 1.3 inch to 21.5 inch, 240\*240-1920\*1080 resolution, square screen, round screen and bar screen optional.
- COF: support 1.3 inch to 10.1 inch. Ultra-thin structure, the entire core circuit of the screen is fixed on the FPC of LCM.

## HDMI



- Support high-speed transmission and high resolution of uncompressed high-definition video.
- Support Linux(Raspberry Pi & Banana Pi), Android and Windows OS.



## Android



- Running Android 11, RK3566 chip, quad core ARM Cortex-A55, 1.8GHz.
- 2GB LPDDR4 + 8GB eMMC(default) 4GB LPDDR4 + 32GB eMMC (optional) 8GB LPDDR4 + 256GB eMMC(optional)
- Interface: MIPI/LVDS/RGB/eDP, support up to 4K.
- Support Java, Kotlin and Flutter development.

## Linux



- Running Linux 4.19/3.1/5.4, RK3566/A40I/T113 chips.
- CPU options: dual core/quad core ARM Cortex-A7(1GHz/1.2GHz) qual core ARM Cortex-A55(1.8GHz)
- Support QT/Debian/LVGL/HMI development.



## Touch Screen



- Size from 1.3 inch to 32 inch.
- IIC/USB interface optional.
- Provide customization service, such as color, size, shape, anti-UV, anti-glare etc.
- Air bonding/OCA bonding.

## TFT LCD



- Size from 1.3 inch to 21.5 inch.
- OEM A-grade glass, 30 days charged aging, no bad pixels and full inspection.
- Provide customization service, such as luminance, high temperature, interface etc.



## Thermostat



- Support OTA software and UI interface online upgrade, integration of multiple languages.
- Expand Zigbee, WiFi and RS485 to realize centralized management and control.
- Adopt dual NTC solution to measure temperature accurately.

## Power Supply



- Complies with EN60601-1 CLASS II safety class, 2xMOPP insulation protection class and CE certification.
- AD-DC power module/wall-mounted power adapter/desktop power adapter optional.
- The power adapter is compatible with five types of conversion plugs: British, Australian, European, American, and Chinese standards.



# DWIN High-integrated Supply Chain

**DWIN**  
ideal partner for you

DWIN Technology, established in 2003, is a high-tech enterprise dedicated to HMI products and solutions. DWIN, leveraging its solid foundation in ASIC design, has focused on innovative research and development of smart screen applications and has successfully achieved a high degree of integration across the entire industry chain. DWIN's headquarter is located in Beijing's Zhongguancun. DWIN includes 2 core enterprises, 9 subsidiaries and 39 overseas service offices. DWIN has served nearly 60,000 customers, with a service network that spans the globe.

**400000m<sup>2</sup>**  
Large Manufacturing  
and Service Base

**9**  
Subsidiaries

**39**  
Overseas  
Service Offices

## SMT Line



8 high-speed SMT lines and 2 full-automatic production lines. For each full-automatic production line, only 2 workstations are required per line, which is suitable for large-scale production of a single model.

## LCM Line



DWIN adopts original class A glass. Each piece of LCD is for 30 days of aging. The entire production is in the park from cleaning, cutting, bonding and lamination of large glass to backlight assembly, quality inspection and charged screening.

## Cover Glass Line



DWIN invested \$16 million to build a laser production line for cover glass. The glass cutting, printing, bonding and lamination are all operated in the park, reducing transit workload and improving yield and efficiency.

## Capacitive Touch Screen Line



Automated manufacturing process, optical automatic screening of defective products, which can further improve the yield rate. The 100-meter long dust-free workshop realizes the continuous connection of multi-station printing, inspection and lamination, and efficient production.



## Customized Service



Shape



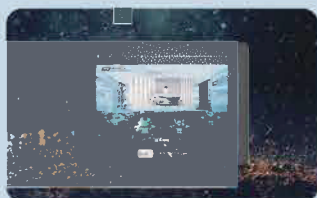
Process



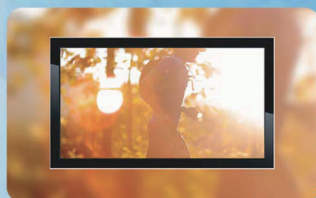
Size



LOGO



High Temperature and  
High Humidity  
(-40°C~85°C, 10%~95%RH)



High Brightness  
(1500nits)



Anti-UV



Anti-glare



Anti-fingerprint



Anti-electromagnetic