



Sunshine Display

# SUNSHINE DISPLAY TECHNOLOGY LIMITED

**Your reliable partner**

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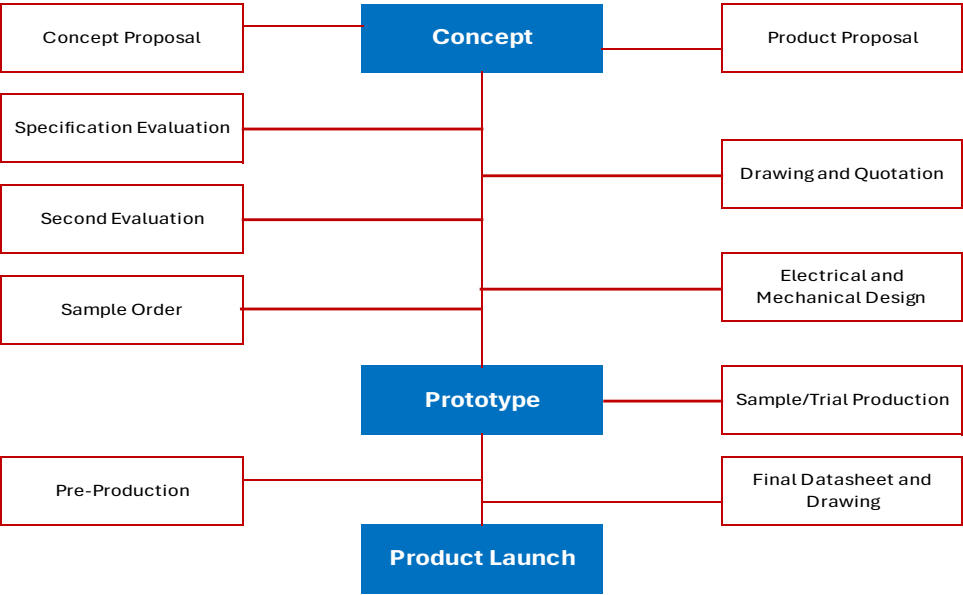
Company profile

Sunshine Display Technology Limited specialized in developing, manufacturing and supply high-quality LCD Modules since 2009. Our factory is located in Shenzhen and Zhaoqing City, China over 30000 square meters, including the thousand-level dust-free of LCM, CTP and backlight workshop. We passed ISO9001, ISO 14001, ISO 13485 and IATF16949 for industry LCD and Automotive Display Manufacturer. All the materials are meeting EU ROHS Standard. Sunshine Display mainly focus on TN, STN, FSTN and VA Monochrome LCD and TFT Modules including 0.96inch to 15.6inch Standard TFT LCD Modules. IPS TFT Display, High Brightness TFT Display, Wide Top. TFT Display, Special shape



TFT Display like Transflective TFT LCD, BAR Type LCD Display and OLED Display solution contain more than 500 different models, our products are widely used in Industrial Control, Medical, Automotive, Handheld devices, Education, Security and Intelligent Equipment, Power Equipment, Smart home, Wearable, Communication and many other fields. Our solutions offer the most competitive and satisfying products available in the market today and uphold a high reputation due to our advanced facilities, mature technology, comprehensive quality management and highly effective customer service.

How we work



Advantages – Why choose us



**Advantages:**  
IATF16949 &ISO9001:2015 for industry and automotive LCD solution  
15 Years professional experience in LCD OEM &ODM customization, TOTAL solution for LCD module & CTP

**Strong supply capacity:**  
Plant area: 30000m<sup>2</sup> Totally with new factory in Shenzhen and Zhaoqing  
Production line staff: over 400workers; 70 R&D people

LCM Capacity: 30K/per Day  
Backlight Capacity:30K/per Day  
CTP Capacity:10K/per Day  
Long Term Supply  
Our LCD products can be supplied on a 5 to 10-year cycle.  
Faster delivery and low MOQ  
Sample lead time around 2 weeks  
Mass lead time 6-8 weeks for standard  
Low MOQ, we could support sample or trail order  
Strong R&D Team backup & Technical Support, Quick Response, Quality Control



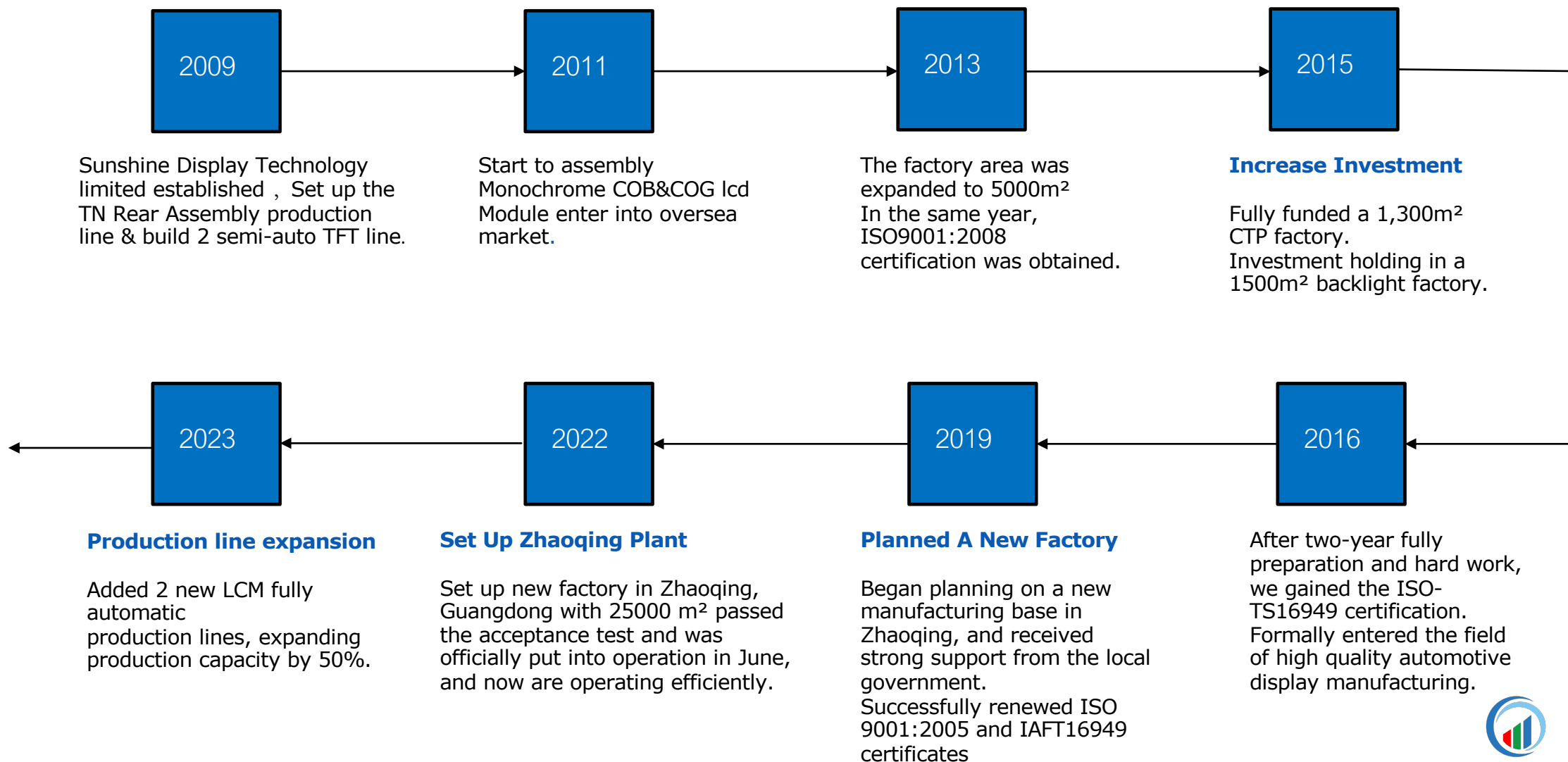
Smart design to reduce your design time



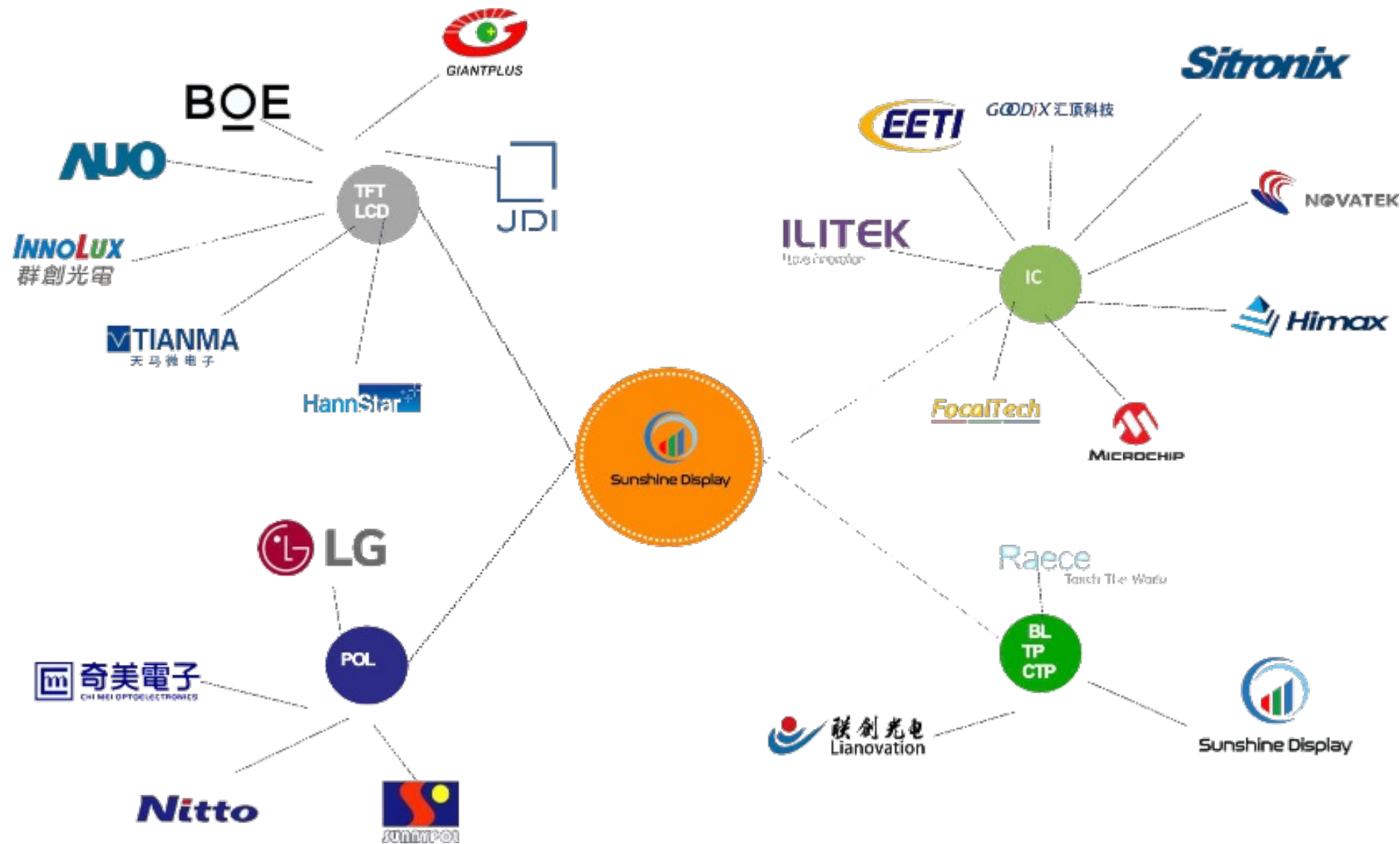
All size TFT display modules from 0.96" to 31.5"  
Touch panel option RTP; CTP  
Wide temperature option  
High- brightness remodel  
Customization FPC, CTP cover lens, FPC, BL, Optical bonding  
Many Treatment glass 3A(AR,AF,AG), Anti-UV  
Colored frame and logo on cover lens



# Company time line

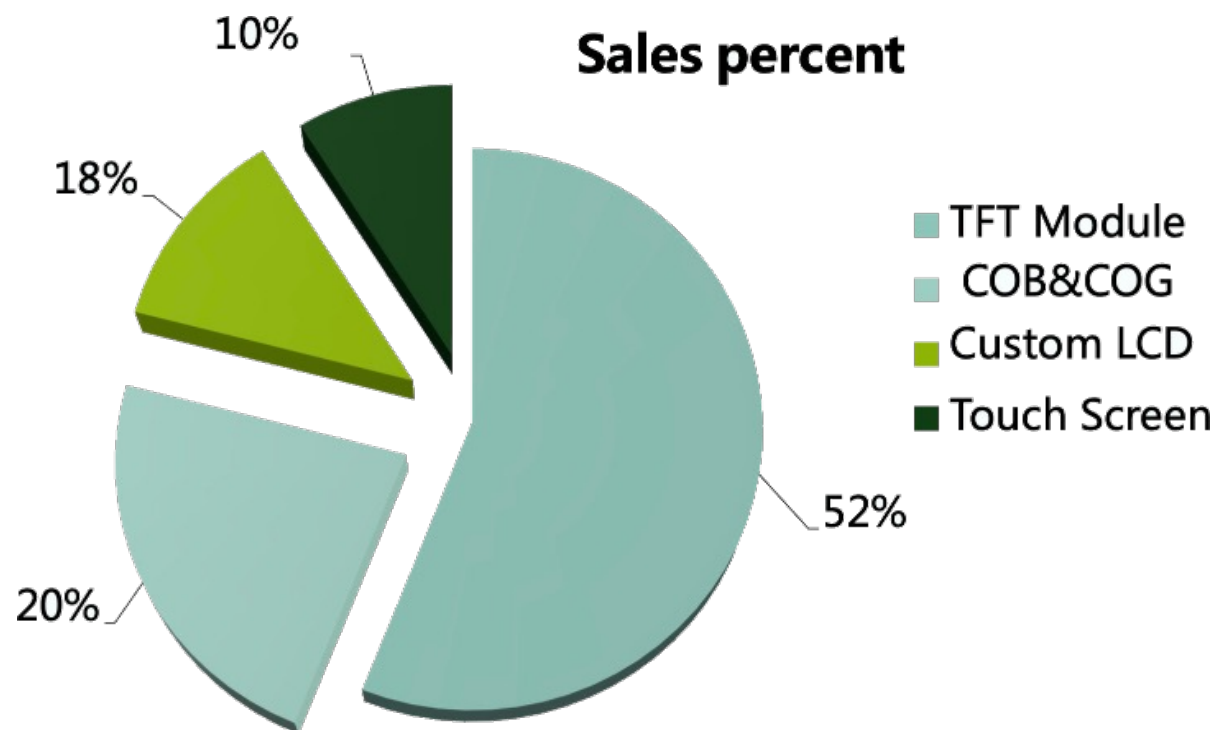
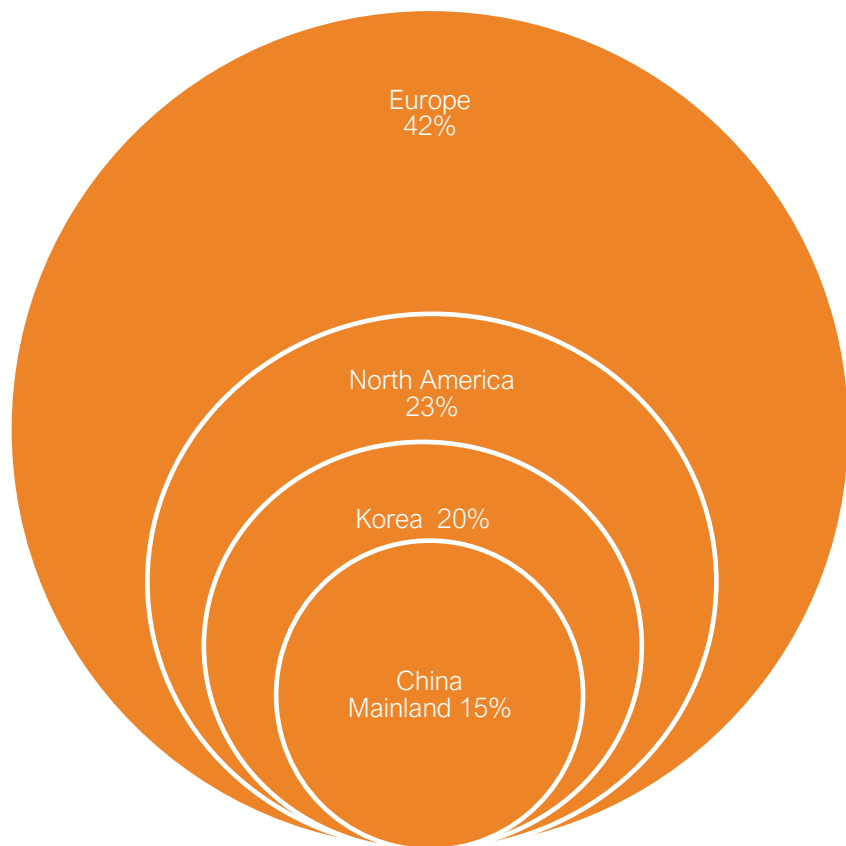


# Supply chain





## Main market areas



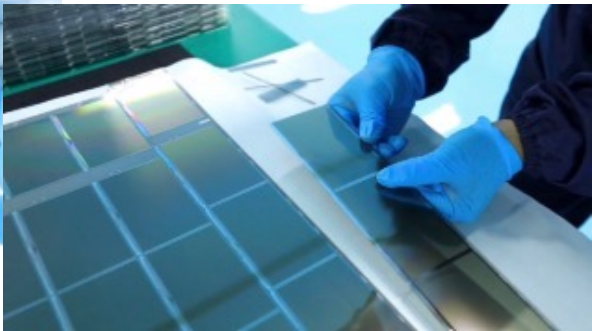
## Product sale structure



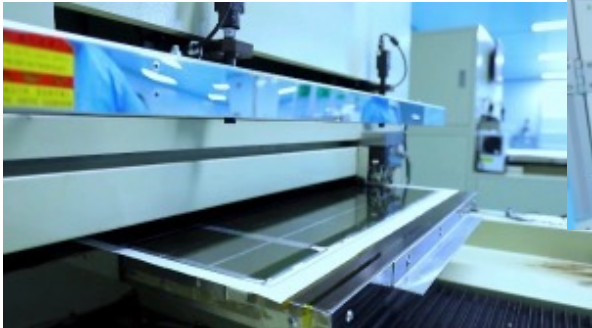
# Factory Show



Glass Cutting Line



Glass Cutting completely



Polarizer Cutting Line



Polarizer & glass bonding line



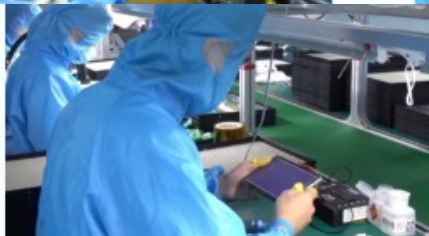
Full-Auto Production line



Semi-Auto Production line



Assembly line





## CTP Workshop



UV curing and defoamar



OCA bonding



Defoaming machine



Assemble



Electrical inspection



Quality testing

## Backlight Workshop





High luminance TFT Module

- 1. Competitive Cost 1.77inch to 15.6inch High brightness to 1000cd/m2
- 2. Support Readable in sunlight
- 3. Can be customized High Brightness Design Backlight
- 4. Standard CTP for 3.5inch to 12.1inch
- 5. Can be customized the FPC, Backlight, CTP for all sizes



Application

1.77inch TFT LCD with 1000cd/m2



Size	1.77inch
Resolution	128x160
Viewing angle	6 oclock
Luminance	1000nits
Driver IC	ST7735
Interface	MCU/SPI

2.4inch TFT LCD 850cd/m2



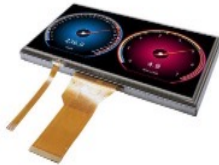
Size	2.4inch
Resolution	240x320
Viewing angle	6 oclock
Luminance	850nits
Driver IC	ST7789
Interface	MCU/SPI

5inch 800x480 IPS TFT with 1000cd/m2



Size	5inch
Resolution	800x480
Viewing angle	IPS
Luminance	1000nits
Driver IC	ST7265
Interface	24bit RGB

7inch 800x480 TFT with 1000cd/m2



Size	7inch
Resolution	800x480
Viewing angle	12 oclock
Luminance	1000nits
Active area	154.08x85.92
Interface	24bit RGB

3.5inch 320x240 TFT with 1000cd/m2



Size	3.5inch
Resolution	320x240
Viewing angle	12 oclock
Luminance	1000nits
Driver IC	HX8238D
Interface	24Bit RGB

4.3inch 480x272 TFT with 1200cd/m2



Size	4.3inch
Resolution	480x272
Viewing angle	12 oclock
Luminance	1200nits
Driver IC	ST7282
Interface	24bit RGB

10.1inch 1024x600 TFT with 1000cd/m2



Size	10.1inch
Resolution	1024x600
Viewing angle	ALL
Luminance	1000nits
Active area	222.72 X 125.28
Interface	LVDS

12.1inch 1024x768 TFT with 1200cd/m2



Size	12.1inch
Resolution	1024x768
Viewing angle	ALL
Luminance	1200nits
Active area	245.76 x 184.32
Interface	LVDS



IPS TFT LCD Module

- 1. Competitive Cost 0.96inch to 15.6inch IPS TFT Modules Solutions
- 2. EWV Polarizer solution TFTs, Wide viewing angle and good contrast
- 3. Can custom design for All sizes of TFT products with EWV Polarizer
- 4. Long LED Life time 50K hours



Application

2.8inch 240x320 IPS TFT Display



Size	2.8inch
Resolution	240x320
Viewing angle	IPS
Luminance	300-1000nits
Driver IC	ST7789
Interface	MCU/RGB/SPI

5.7inch 640x480 IPS Display



Size	5.7inch
Resolution	640x480
Viewing angle	IPS
Luminance	650nits
Driver IC	JD9168S
Interface	RGB

8inch 1024x768 IPS Display



Size	8inch
Resolution	1024x768
Viewing angle	IPS
Luminance	400nits
Active area	162.05X121.54
Interface	LVDS

10.4inch 1024x768 IPS TFT



Size	10.4inch
Resolution	1024x768
Viewing angle	IPS
Luminance	500nits
Active area	210.43×127.7
Interface	LVDS

4.3inch 800x480 IPS TFT LCD



Size	4.3inch
Resolution	800x480
Viewing angle	IPS
Luminance	500 to 1000nits
Driver IC	ST7262
Interface	RGB

7inch 1024x600 IPS Display



Size	7inch
Resolution	1024x600
Viewing angle	IPS
Luminance	300 to 1000nits
Driver IC	HX8282/HX8696
Interface	RGB or LVDS

10.1inch 1280x800 IPS Display



Size	10.1inch
Resolution	1280x800
Viewing angle	IPS
Luminance	500 to 1000nits
Driver IC	EK79202B
Interface	LVDS or HDMI

15.6inch IPS TFT Module



Size	15.6inch
Resolution	1920x1080
Viewing angle	IPS
Luminance	500nits
Active area	344.16*193.59
Interface	EDP or HDMI



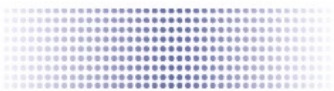


Pictures						
Size	3.5inch	4.3inch	5inch	7inch	8inch	10.1inch
Resolution	320x240	800x480	800x480	800x480	1280x720	1280x800
Viewing Angle	IPS	IPS	IPS	IPS	IPS	IPS
Interface	RGB+SPI	RGB	RGB	LVDS	LVDS	LVDS
Working temp.	-30 to +85°C	-30 to +85°C	-30 to +85°C	-30 to +85°C	-30 to +85°C	-30 to +85°C
Storage temp.	-40 to +90°C	-30 to +85°C	-30 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C
Luminance	650cd/m²	1000cd/m²	1000cd/m²	1000cd/m²	1000cd/m²	1000cd/m²



Round & bar type TFT LCD Display

- 1. Competitive Cost round TFTs. : 1.28inch to 5 inch )
- 2. Transflective TFT : 1.77'', 2'', 2.4'', 3.5inch
- 3. Bar Type LCD Display : 2.86'' to 12.3inch.
- 4. Special shape



2.1inch round IPS TFT Display



Size	2.1inch
Resolution	480x480
Outline size	56.18X59.71X2.2
Active area	53.28X53.28MM
Driver IC	ST7701S
Interface	RGB+SPI

7inch 280x1424 Bar Type LCD



Size	7inch
Resolution	280x1424
Outline size	38.20X181.47X3.4
Active area	33.60X170.88
Driver IC	OTA7290B
Interface	MIPI



Application



4inch 720x720 IPS TFT LCD



Size	4inch
Resolution	720x720
Outline size	105.61X109.87X2.09
Active area	101.52X101.52
Driver IC	ST7707
Interface	MIPI

12.3inch 1920x720 IPS Display



Size	12.3inch
Resolution	1920x720
Outline size	308.3*130.2*7.3
Active area	292.032 x 109.512
Operating temp.	-30 to +85
Storage temo	-40+90C



## CTP Custom



Industrial Control



Industrial Computer



Handheld Devices



Industrial Tablet

### CTP/PCAP Touch screen:

1. Can be customized based on customer's requirement
2. **Standard CTP for 3.5inch, 4.3inch, 5inch, 7inch, 8inch, 10.1inch, 12.1"**
3. All Standard CTP are using **Focal Tech driver IC** (can change with ctm requirements)

### Structure:

- 1) **G+G** Structure : Support glove touch、 Support optical bonding.
- 2) **G+F** Structure :Can do aliens, Support glove touch, Support optical bonding.
- 3) **G+FF** Structure: Can do aliens, Support glove touch, Support optical bonding.
4. Interface: I2C and USB interface
5. Competitive Prices Support in the market

### Application





## Special Application Treatment

With the change in the environment, the basic demand for Q,C,D (Quality, Cost, Delivery) is no longer able to satisfy the market.

From our experience as a TFT display manufacturer specialized in the industrial equipment industry, we think and propose optimal solution that meet your needs.

# Help your idea to begin reality

Cover Glass

DSA

Optical Bonding

Bezel/Bracket

Sensor Glass or LCM

## Optical Bonding

- OCR Bonding
- OCA Bonding
- UV cut OCA Bonding

Custom Cover Glass  
Logo  
Thickness and Impact glass IK6-8  
Transparent hole for LED  
Coatings  
etc.

AR glass

Wood grain

AG glass

White RAL

## Cover Glass

- High impact cover glass (IK6-IK8)
- Shatterproof
- Special Surface Treatment 3A (AG/AR/AF), Composite treatment

## Special Treatment

- Multi-touch or one-point-touch
- Glove Touch
- Water resistant and wet finger touch

- **Anti-Reflection (AR)** – reducing the reflection on the surface of display by applying a specific thickness.
- **Anti-Glare (AG)** – removing a bright glare by creating a rough surface.
- **Anti-Finger (AF)** – preventing fingerprint and smudges by applying a type of treatment that reduce the ability of the surface to retain oils.
- **Mirror process** - it can be blue mirror, white mirror, it makes the whole cover lens look like a mirror when the display is in power off.
- **Brushed process** - a process that is extremely textured to the touch, making your product look more artistic.
- **Wood grain process** - it can simulate the texture of wood, it when the display is in power off, the whole cover looks like a piece of solid wood.



## Monochrome LCD Module

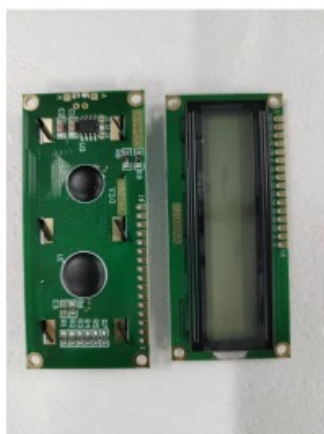
1. Very Competitive cost Standard character, graphic COB and COG LCD Modules
2. Customized LCD Panel like, TN, STN, FSTN, VA LCD.
3. Over 20 years real factory sales directly
4. High quality & Competitive Prices Support in the market
5. Fast delivery Support
6. From 8x1 to 40x4 char and from 122x32 to 320x240 graphic

If you will need any of LCD & LCM, Please don't hesitate to contact us. Thank you



## Application

16x2 COB LCD Module



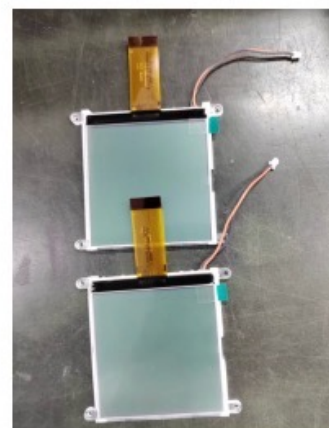
16x2 COG LCD  
bigger size



128x64 COB LCD



160x160 COG LCD



320x240 COB LCD Module



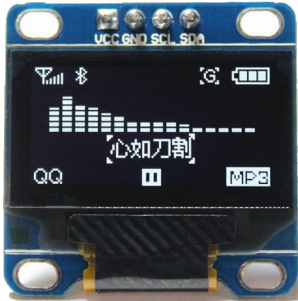
VA LCD



OLED Module



- 1. Standard graphic COB and COG OLED Modules
- 2. Size from 0.42inch to 5.5inch
- 3. White/Yellow/Blue colors
- 4. full color 65K(0.95 and 1.12inch); 262K (1.27,1.5 and 1.69inch)



Size	0.96inch
Resolution	128 x 64
Outline size	28x14x1.2
Active Area	21.74x10.86
Driver IC	SH1107
Interface	I2C



Size	1.5inch
Resolution	128 x 128
Outline size	33.8x34x1.6
Active Area	26.855x26.864
Driver IC	SSD1351
Interface	8bit-6800/8000, 3/4-SPI
Colors	262K



Application

Size	5.5inch
Resolution	256 x 64
Outline size	146x45x2
Active Area	135.65x33.89
Driver IC	SSD1322
Interface	8bit-6800/8000, 3/4-SPI



Size	2.7nch
Resolution	128 x 64
Outline size	73x41.86x2
Active Area	61.41x30.69
Driver IC	SSD1325
Interface	8bit-6800/8000, 3/4-SPI





## Knob Module

1. Switch life 30,000 times; encoder life 30,000 times
2. Rotate sound clear distance ( $300 \pm \text{gf.cm}$ )
3. Switch resilience ( $650\text{g} + 200\text{g}$ )
4. Screen and UI are customized according to customer requirement
5. Screen can be equipped with TFT screen, IPS screen, AMOLED screen
6. Suitable for 1.28 inch round screen
7. Customizable functions: touch, ambient light, temperature and humidity, Bluetooth, WiFi, Voice control, Voice broadcast, APP, Small program

ROTATE+TOUCH+PRESS



ROTATE+PRESS



## Software Development Mode

This model of product is developed based on UI\_Editor platform. Users can learn the specific software development methods, the corresponding technical documents, development routines, guide videos and other relevant materials. For more development information or technical support, please contact us.

Support for custom shell colors

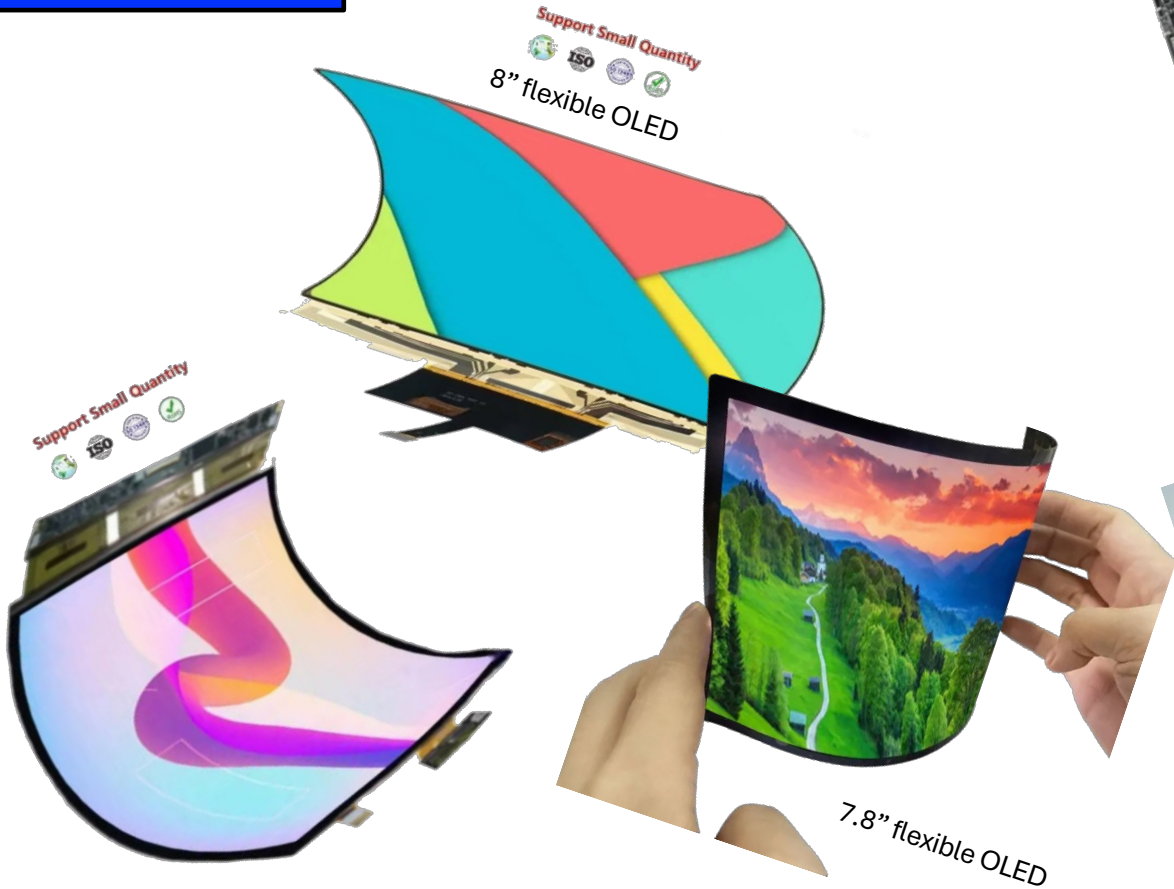


More colors await your customization





Flexible AMOLED



***If you are interested in, contact your agent***

# Application





# Applications

HiFi Amplifier



Farm Tractor

Motorcycle cockpit



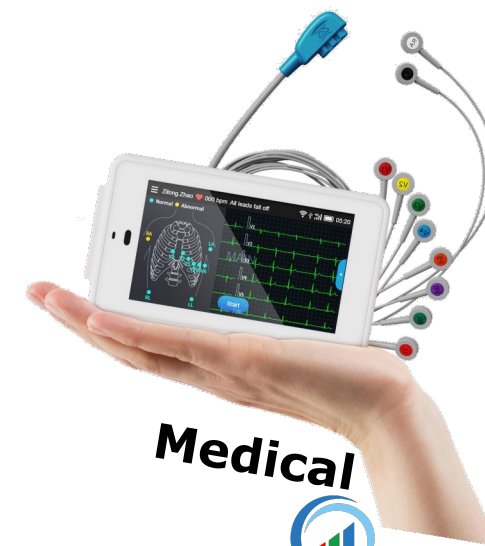
Thermometer



Water Dispenser



Industrial Device



Medical







Sunshine Display

## Sunshine Display Technology Limited

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