

Global One-Stop HMI DISPLAY

Solution Provider



www.topte.com



Global One-Stop HMI Display Solution Provider

Intelligent Vision Touching Future

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Company Profile

Global One-Stop HMI Display Solutions Provider

Jiangxi Tongtai Visual Display Technology Co., Ltd. (TOPTE) is an innovative enterprise specializing in liquid crystal displays, touch displays, and smart terminal products. We provide global customers with comprehensive, one-stop, customized services spanning the entire process from product design to manufacturing. Committed to deep technical expertise and rapid response service, we strive to become a benchmark service provider in the global human-machine interaction display field.

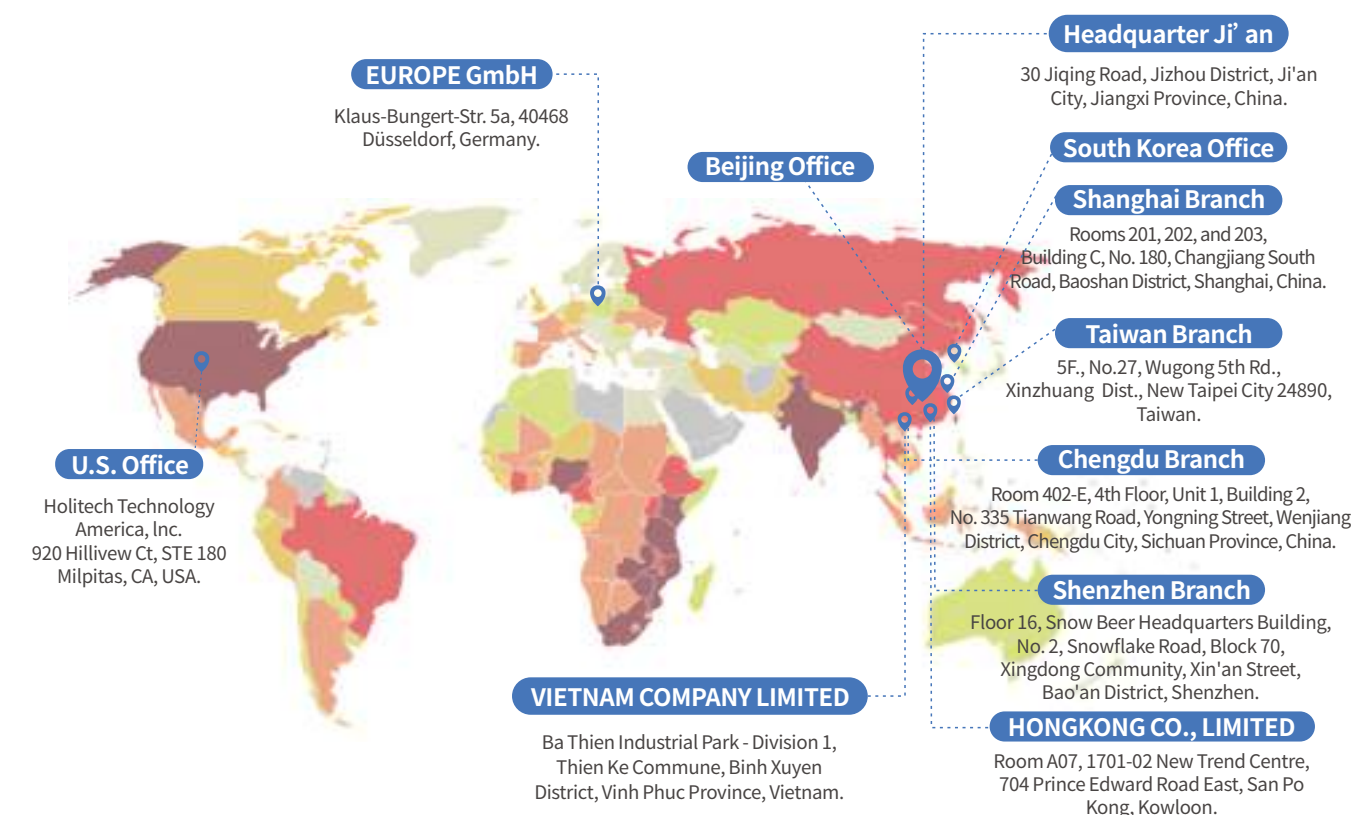
TOPTE has established a diverse product portfolio for multiple application scenarios. Its core offerings include MONO LCD display modules, touchscreens, TFT/AMOLED display modules, and components. These products are widely adopted across various sectors such as instrumentation, home appliances, communication equipment, industrial control devices, medical equipment, wearables, automotive displays, micro-projectors, digital products, retail terminals, and AI smart terminals, delivering critical display solutions for intelligent devices across industries.



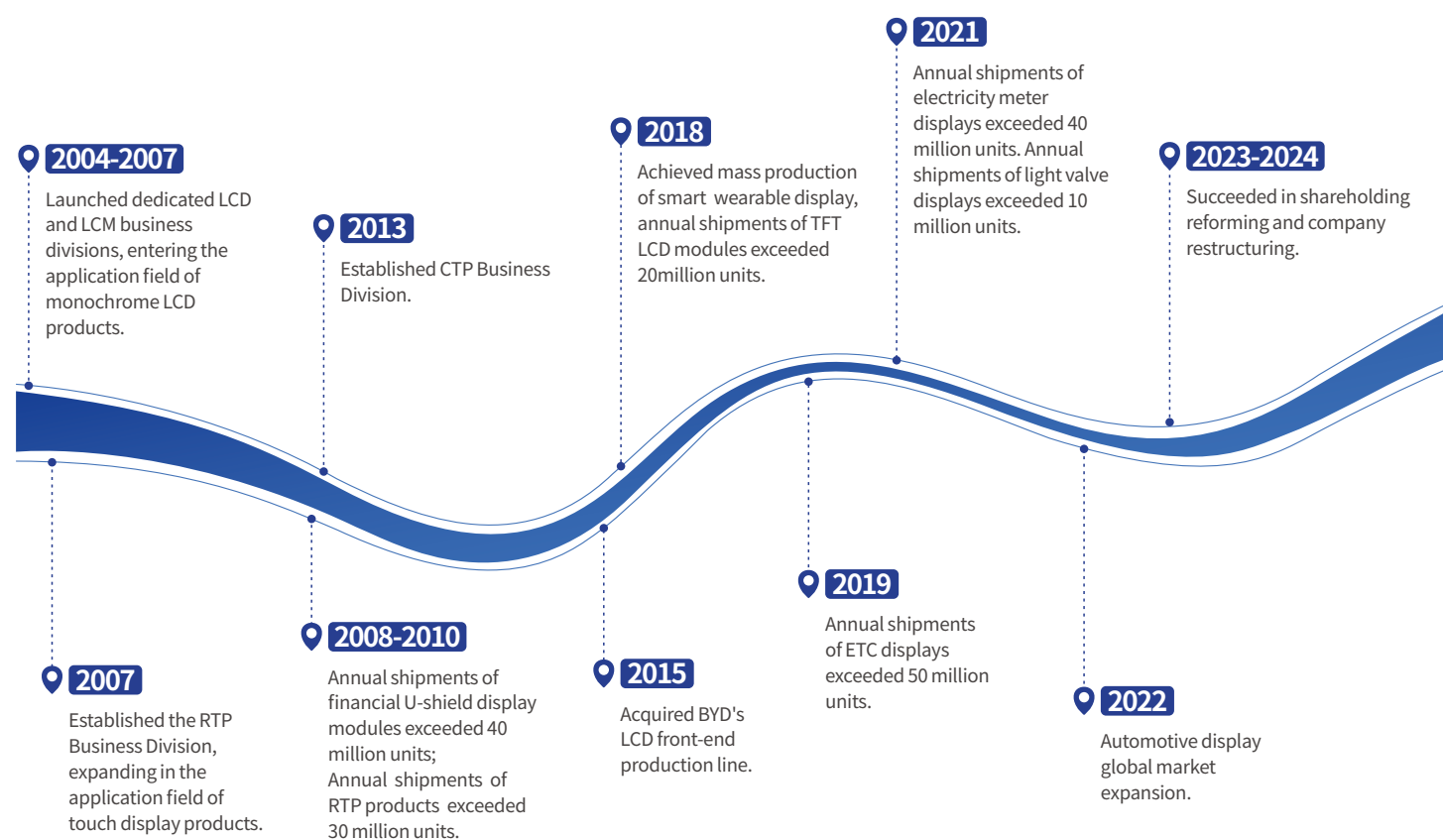
TOPTE | Global Presence

Global Reach, Immediate Response

Headquartered in Ji'an City, Jiangxi Province, TOPTE operates a manufacturing center spanning over 40,000 square meters. To better serve a global clientele, the company has established a worldwide presence with branch offices and support networks in Shenzhen, Taiwan, Hong Kong, Vietnam, and Germany.



Development Events



Mission, Vision & Values

► Professional Manufacturing

- **High-Precision, Highly Competitive Professional Manufacturer:** excellence in product design, advanced process & equipment capabilities.
- **Execution Power:** A team renowned for strong organization, coordination, and management execution.



► Comprehensive One-stop Assembly Service Provider

- Product portfolio: Mono LCD & LCM, backlight units, CTP, RTP, cover glass, TFT LCD, AMOLED, and COF.
- Premium Infrastructure: Class 100 Cleanroom.
- Annual Capacity: >25 Million Units.
- Full Size Range: 0.96" to 15.6".

► Leading differentiated products aligned with niche industry trends

- Focus on application scenarios and product value to define new products.
- Proactively research and develop materials, processes, equipment, and product solutions based on market insights



► Integrate into the core resource network

- By understanding trends in core resources and delivering premium value from our position in the industrial chain, we foster a collaborative ecosystem of partners for shared success

Company Awards & Recognition

- 🏆 National Technology Innovation Demonstration Enterprise
- 🏆 National Enterprise Technology Center (24th Batch)
- 🏆 National Champion in Manufacturing Specialty
- 🏆 National Green Factory
- 🏆 National Intellectual Property Demonstration Enterprise
- 🏆 National Standard Drafting Unit
- 🏆 Post-doctoral Scientific Research Workstation
- 🏆 Engineering Research Center for New Display Technologies
- 🏆 Jiangxi Provincial Industrial Design Center For Touch Display
- 🏆 Jiangxi Provincial Smart Manufacturing Benchmark Enterprise
- 🏆 Jiangxi Provincial Gazelle Enterprise
- 🏆 Jiangxi Provincial Engineering Technology Research Center
- 🏆 Jiangxi Provincial Science and Technology Award
- 🏆 Top 100 Competitive Enterprises in Electronic Information
- 🏆 Outstanding Belt and Road Enterprise in the Electronics Information Industry
- 🏆 Jiangxi Annual Meritorious Enterprise Social Responsibility Rising Star Enterprise
- 🏆 Uttar Pradesh State Investment and Employment Contribution Award
- 🏆 Pioneer of Manufacturing Industry
- 🏆 China Top 500 Enterprise of Fortune
- 🏆 Top 500 Private Manufacturing Enterprise of China
- 🏆 Fujian Provincial Top 100 Manufacturing Enterprises
- 🏆 Jiangxi Provincial Outstanding Enterprise



Company Qualifications



TOPTE has always regarded quality as the lifeline of its corporate development. It has successfully obtained multiple international authoritative certifications such as ISO:9001, IATF 16949, and ISO: 14001, thereby laying a solid foundation for maintaining its leading position in the industry.



ISO 13485:2016



ISO 14001:2015



ISO 45001:2018



ISO 9001:2015



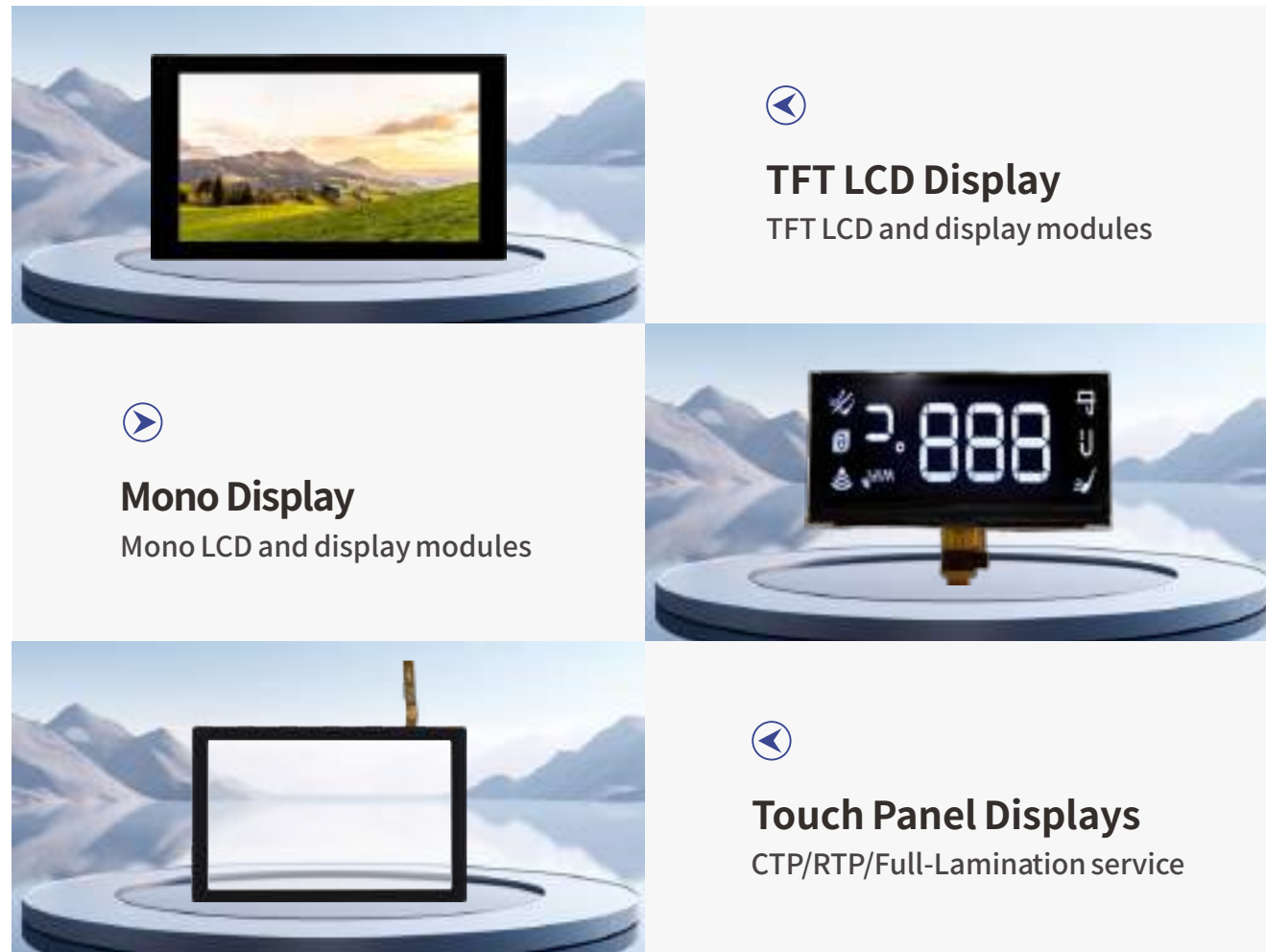
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Product Category

Providing one-stop HMI display solutions, integrating Mono LCD and display modules, TFT LCD and display modules, and touch modules. With a comprehensive range of sizes, our products cater to diverse application needs.



TFT LCD Display Modules

TOPTE leads in technological innovation and production capacity upgrade for color modules, offering full-scenario solutions—from classic small-size screens to high-end automotive displays—for smartphones, wearables, industrial control, smart home, and commercial display applications.

Advantages

Economies of Scale

Operates China's most comprehensive TFT module production lines for wearables and industrial control, with a monthly capacity of 5.5 million units. Equipped with 12 fully automated COG lines and 3 fully automated COP lines to ensure efficient delivery and cost optimization.

Market Differentiation

Focuses on optical component design optimization, process innovation, driver technology upgrades, and interface compatibility improvement—balancing cost and performance.

One-Stop Supply

Supports multiple technologies including traditional external TP modules, On-Cell modules, and OLED. Features three industry-leading high-precision COF lines (equipment accuracy: $\pm 4\mu\text{m}$), providing customers with integrated hardware and technical support.

Future Plans

- Invest in in-house backlight production lines for 7–12 inch sizes.
- Expand into medium-to-large size segments: 13.3 inch tablet panels, 14–15.6 inch automotive displays.
- Drive industrial collaboration: develop EPD lamination services.

• TFT LCD

Covering 0.9" ~ 15.6" TFT LCD display modules, include touch panel air bonding and optical bonding solutions. We possess full-process capabilities in display module manufacturing, including LCD cutting, COG, FOG, COF , FOF, TFOG, TFOF, backlight assembly, and full lamination.



- Strong supply chain integration capabilities
- Comprehensive product portfolio: TN, TFT (in-cell/on-cell), OLED, LCM, TLM integrated product lines
- Stringent Quality Control: Information-driven management platform adhering to international quality standards

Description	LCD AA (mm)	Outline Dimension(mm)	Interface	Brightness
2.4" 240 x 320 TN	36.72 x 48.96	42.72 x 60.26 x 2.24	16-bit MCU	300 cd/m ² (MIN),350 cd/m ² (TYP)
4.3" 480 x 272 TN	95.04 x 53.856	105.5 x 67.2 x 3.00	RGB	300-350 cd/m ²
5.5" 720 x 1280 IPS	68.04 x 120.96	70.04 x 131.61 x 1.8	31-pin MIPI	240 cd/m ² (min)
7" 800 x 480 TN	153.84 x 85.63	164.9 x 100 x 5.65	RGB	800 cd/m ² (MIN),900 cd/m ² (TYP)
7" 1024 x 600 TN	154.21 x 85.92	164.9 x 100 x 2.8	30-pin MIPI	250 cd/m ² MIN,300 cd/m ² TYP
10.1" 800 x 1280 IPS	135.36 x 216.58	142.88 x 228.54 x 2.66	MIPI	350 cd/m ² MIN,400 cd/m ² TYP
15.6" 1920 x 1080 IPS	344.16 x 193.59	363.8 x 215.98 x 9.6	LVDS	800 cd/m ² MIN,1000 cd/m ² TYP

Application: ① Smart Wearables ② Mobile Phones ③ Tablets ④ Financial POS ⑤ Security ⑥ Smart Home ⑦ Medical ⑧ Commercial Retail ⑨ Industrial Control ⑩ Automotive

• AMOLED

Covering 0.95"~7" AMOLED display-touch integrated modules, featuring internationally advanced management systems and operational processes, serving smart wearables and smartphone applications.



- Strong supply chain integration capabilities.
- Comprehensive product portfolio: Covers full LCD display and OLED display-touch integrated module product lines.
- Stringent quality control: Information-driven application management platform adhering to international quality system standards.

Description	LCD AA (mm)	Outline Dimension(mm)	Temperature Range	Brightness
1.3" 240 x 240 IPS	TFT+CTP	23.4 x 23.4	operating : -20°C~70°C,storage : -30°C ~ 80°C	530 cd/m ² Typ
1.32" 466 x 466 Oncell	AMOLED+CG	CircleØ33.5	operating : -20°C~70°C,storage : -30°C ~ 80°C	600 cd/m ² Typ
1.43" 466 x 466 Oncell	AMOLED+CG	CircleØ36.35	operating : -20°C~70°C,storage : -30°C ~ 80°C	500 cd/m ² Typ
1.6" 320 x 360 Oncell	AMOLED+CG	27.02 x 30.40	operating : -20°C ~60°C,storage : - 30°C ~ 65°C	400 cd/m ² Typ
1.78" 368 x 448 Oncell	AMOLED+CG	28.70 x 34.94	operating : -20°C~70°C,storage : -30°C ~ 80°C	500 cd/m ² Typ
1.85" 390 x 450 Oncell	AMOLED+CG	30.75 x 35.48	operating : -20°C~70°C,storage : -30°C ~ 80°C	500 cd/m ² Typ
1.952" 410 x 502 Oncell	AMOLED+CG	31.37 x 38.4	operating : -20°C~70°C,storage : -30°C ~ 80°C	550 cd/m ² Typ

Application (TFT)



Finance
Smart Cash Register / POS



Home
Washing Machine / Microwave Oven
Coffee Maker / Water Heater / Oven



Automotive
Car Center Console
Entertainment Screen Panel



Wearables
Smart watches



Consumer Electronics
Mobile Phones/Tablets



Commercial
Commercial Displays



Industrial
Equipment



Medical
Hospital Bed Call System



Security
Access Control/Electronic Peephole

Application

• Financial • POS Terminals

TOPTE has been deeply involved in the financial payment display field for over a decade, with applications covering POS, cash registers, and other products. The product line features displays ranging from 2.4" ~ 15.6" and touch modules, offering a complete product portfolio.



Product Specifications	
Description	5.5" 720 x 1280 IPS
LCD AA	68.04 x 120.96(mm)
Outline Dimension	70.04 x 131.61 x 1.8(mm)
Operating Temperature	-20°C~70°C
Storage Temperature	-30°C~80°C
Connection Method	31-pin MIPI
Brightness	240 cd/m ² (min)

• Commercial • Printer

By optimizing the display design, it clearly shows the progress of operations such as printing and copying, further reducing the probability of microoperation and enhancing usability in office scenarios.

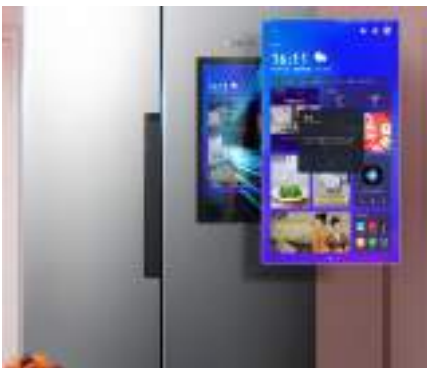


Product Specifications	
Description	3.5" 320 x 480 IPS
LCD AA	74.04 x 49.56(mm)
Outline Dimension	97 x 70 x 3.7(mm)
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-30°C ~ +70°C
Connection	ZIF

Application

• Home Appliances • Refrigerator control screen

Leveraging exceptional customization and leading technology integration, TOPTE serves the entire smart home appliance sector—including microwaves, ovens, refrigerators, washing machines, water heaters, air conditioners, and fireplaces.



Product Specifications		Features
Description	9" 1024 x 600 IPS	1.Supports multi-dimensional information display, clearly presenting appliance operating parameters. 2.Highly durable structural design: Screen surface primarily uses tempered glass panels (Mohs hardness ≥6H), offering strong scratch resistance and withstanding minor impacts and friction during daily use, meeting the safety service life requirements for household appliances.
Structure	TFT+CTP	
LCD AA	196.61 x 114.15(mm)	
Operating Temperature	-20°C ~ 70°C	
Storage Temperature	-30°C ~ 80°C	
Connection Method	40-pin ZIF	

• Smart Wearables • Watch/Wristband

Focusing on TFT and AMOLED core technologies, covering processes such as TFT+CTP and On-Cell AMOLED+CG. Mastering key processes including CFOG, TFOG, COF, FOF, fully automated backlight assembly, and fully laminated CTP deliver high-quality display and touch solutions for wearable devices.



Product Specifications		Features
Size	1.43-inch	1.Always-On Display (AOD): Reduces power consumption by >60% for minimalist time interfaces. 2.High-Durability Structural Design: The screen surface typically employs reinforced glass panels (Mohs hardness ≥ 6H), offering excellent scratch resistance. It can withstand minor impacts and abrasion during daily use, meeting the safety service life requirements for household appliances.
LCD AA	Ø33.552(mm)	
Resolution	466 x 466	
Outline Dimension	Ø41.1 x 2.13 (excluding FPC and NFC)	
Operating Temperature	-20°C ~ 70°C	
Storage Temperature	-30°C ~ 80°C	

Application

Industrial Control

Wired Controller

The wired controller module is delivered as an integrated solution combining CTP and LCM, featuring full lamination technology and equipped with an FHD TFT LCD panel. With a resolution of 1024×600, it delivers clear and detailed information display.



产品参数	
Size	7"
Resolution	1024x600
LCD AA	152.37x89.28(mm)
Operating Temperature	-20°C~60°C
Storage Temperature	-30°C~70°C
Brightness	250cd/m²MIN 300cd/m²TYP

Consumer

AI Card Camera

The ultra-slim module measures just 2.15mm in thickness, making it easy to integrate into compact device while freeing up more space for internal component layout. With high-resolution display, it delivers crisp and detailed visuals.



产品参数	
Size	3.95"
Resolution	720x720
LCD AA	70.53x71.28(mm)
Operating Temperature	-20°C~60°C
Storage Temperature	-30°C~70°C
Brightness	400cd/m²MIN 450cd/m²TYP

Application

Consumer

Treadmill

TOPTE Display possesses the R&D and manufacturing capabilities for display modules of 15.6" and above. With full HD image quality, flexible integration solutions, and reliable performance, we help sports equipment achieve a dual upgrade in both visual experience and user interaction.



产品参数	
Size	18.5"
Resolution	1920x1080
LCD AA	408.96x230.04(mm)
Operating Temperature	0°C~50°C
Storage Temperature	-10°C~60°C
Brightness	420cd/m²MIN 480cd/m²TYP

Two-Wheeler

Two-Wheeler

TOPTE Display offers a comprehensive range of TFT display for instruments covering mainstream sizes from 3.5" to 7", and provides a complete one-stop display solution for two-wheelers, featuring multiple resolutions, diverse technology paths, and broad interface compatibility.



产品参数	
Size	5"
Resolution	800x480
LCD AA	108.0x64.8(mm)
Operating Temperature	-40°C ~ 90°C
Storage Temperature	-30°C ~ 85°C
Brightness	1000cd/m²MIN 1500cd/m²TYP

Mono LCD/LCM

With over two decades of deep expertise in monochrome LCDs, Topte is driven by profound technological accumulation and continuous innovation. We have established core competitive advantages characterized by highly mature technology, strong customization capability, and exceptional product reliability.

Advantages

**Economies of Scale**

We ensure sufficient capacity through scaled production to achieve cost down

- ONE: 450mm*550mm front-end line (52k pairs/month),
- TWO: 370mm*470mm front-end lines (81k pairs/month)
- TWO: pin assembly lines (6M units/month)
- FOUR: module bonding lines (1.56M units/month)

**High Reliability**

Our metering products, especially the segment displays, set industry benchmarks with ultra-wide operating temperature and high reliability. They excel in extreme environments—capable of stable operation for up to 1,000 hours under harsh conditions of 85°C and 95% relative humidity (RH), with a service life of up to 16 years.

**One-Stop Service**

We offer a complete product portfolio—from LCD cells and white glass to finished displays and modules—providing long-term enterprise clients with comprehensive one-stop service solutions.

Mono LCD

Includes segmented, character, dot matrix, and optical valve types; display modes: TN, HTN, STN, FSTN, DFSTN, VA, optical valve; sizes range from 0.8 inch ~ 24 inch.



- Diverse display structures enable customized development.
- High-precision display, low-power design, strong compatibility.
- High reliability, can meet 85C/85%RH*1000H high-temperature and high humidity requirements, service life can last up to 16 years.
- Extended operating temperature range, wide viewing angle, and stable performance.

Structure	Outline Dimension (mm)	Transmission Type	Viewable Area	Viewing Angle	Type	Product Application
LCD+PIN	64 x 38	Positive, transfective	60 x 30	6 o'clock	Segment	State Grid Single-Phase
LCD+PIN	90 x 59	Positive, Reflective	85 x 50	6 o'clock	Segment	State Grid Three-Phase
LCD+PIN	64 x 36.5	Positive, transfective	60 x 30	6 o'clock	Segment	Southern Grid Single-Phase
LCD+PIN	89 x 59	Positive, transfective	85 x 50	6 o'clock	Segment	Southern Grid Three-Phase
LCD+PIN	40 x 25	Positive, Reflective	37 x 17	6 o'clock	Segment	Water Meter
LCD+FPC	58.09 x 33.7	Positive, transmissive	53.69 x 31.33	10:30	3D	3D glasses
LCD+PIN	105 x 56	Positive, transmissive	98 x 53	7:30	Light Valve	Welding mask
LCD	40 x 45	Positive, Reflective	33 x 42	6 o'clock	Segment	Remote Control
LCD+PIN	54 x 38	Positive, transfective	52 x 32	6 o'clock	Segment	Electric Vehicle
LCD+PIN	68 x 27	Positive, Reflective	64 x 19	6 o'clock	Segment	Gas Meter

Mono LCD Module

Covering segmented, character-based, and dot matrix display types, with display modes including TN, HTN, STN, FSTN, DFSTN, ASTN, VA, etc.; structures encompass COG, COB, SMT, etc.; sizes range from 0.8 inch ~ 7 inch.



- High-precision display, low-power design, strong compatibility
- Strong resistance to ESD and group pulses
- Extended operating temperature range, wide viewing angle, and stable quality
- Capable of producing high-channel-count products up to 240 channels

Structure	Outline Dimension (mm)	Transmission Mode	Viewable Area	Viewing Angle	Type	Product Application
LCD+HC+FPC	29.86 x 18.72	Positive, transfective	27.86 x 14.42	6 o'clock	Dot Matrix	Ushield
LCD+HC+FPC	38.6 x 20.0	Positive, Reflective	34.6 x 15	6 o'clock	Dot Matrix	ETC
LCD+IC+FPC+BLD	79.2 x 42	Positive, transfective	63.46 x 23	6 o'clock	Dot matrix+ICON	Telephone
LCD+HC+FPC	53.4 x 25.5	Positive, Reflective	50.4 x 17.20	6 o'clock	Dot Matrix	Printer
LCD+IC+FPC+BLD	93 x 38.8	Negative, transmissive	88 x 29.5	12 o'clock	Segment	Home Appliance
LCD+IC+FPC+BLD	74.3 x 56.3	Positive, transmissive	68.8 x 45.8	12 o'clock	Segment	Thermostat
LCD+IC+FPC+BLD	66.55 x 72.20	Positive, transfective	60 x 60	6 o'clock	Dot Matrix	Electric Meter Concentrator
LCD+IC+PIN	65 x 34 x 2.85	Positive, transfective	60 x 25	6 o'clock	Dot Matrix	Single-phase IoT

Application: ① Metering ② Financial ③ Elevators ④ Communications ⑤ Control Panels ⑥ Medical ⑦ Optical Valves ⑧ Office Equipment
⑨ Home Appliances ⑩ Automotive

Application (Mono)



Metering
Electricity Meters/Water Meters
Gas Meters



Financial
POS / ETC



Communication
Conference Terminals/Handheld Terminals



Light Valve
Welding Mask



Medical
Blood Pressure Monitors



Home Appliances
Refrigerators / Washing Machines



Industrial Control
Temperature Controllers / Detection Instruments



Automotive
Vehicle Instrument Displays

Application

• Metering Products

Electricity Meters/Water Meters/Gas Meters

Core products cover the full range of categories including State Grid single-phase/three-phase meters, China Southern Power Grid single- phase/three-phase meters, smart gas meters, smart water meters, overseas COG electricity meters, flow meters, heat meters, smart IoT single- phase/three-phase meters, data collectors, and Type III dedicated transformers.



Electricity Meter

Product Parameters	
Resolution	126-stroke segment
Outline Dimension	64.0 × 38 × 2.8 (mm)
VA	60 × 30 (mm)
Operating Temperature	-40°C ~ +80°C
Storage Temperature	-45°C ~ +85°C
Reliability	85°C 85%RH*1000 hours



Gas Meter

Product Parameters	
Resolution	148 segments
Outline Dimension	48.5 × 22.5 × 2.85 (mm)
VA	44.5 × 14.5 (mm)
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C ~ +90°C
Reliability	85°C 95%RH*1000 hours



Water Meter

Product Specifications	
Resolution	88 pen segments
Outline Dimension	40 × 25 × 2.85 (mm)
VA	37 × 17 (mm)
Operating Temperature	-30°C ~ +80°C
Storage Temperature	-40°C ~ +80°C
Reliability	60°C 90%RH*240 hours

Application

• Metering Products

COG Electricity Meters/Data Loggers/IoT Meters, etc.



COG Electricity Meter

Product Parameters	
Resolution	168-segment
Outline Dimension	74.0 × 24.0 × 2.80
VA	65.0 × 21.0 (mm)
Operating Temperature	-25°C ~+80°C
Storage Temperature	-30°C ~ +85°C
Reliability	85°C 85%RH*1000 hours



Data Loggers

Product Parameters	
Resolution	160 × 160 dot matrix
Outline Dimension	72.2 × 66.55 × 4.3 (mm)
VA	60.0 × 60.0 (mm)
Operating Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +80°C
Reliability	85°C 85%RH*500 hours



IoT

Product Specifications	
Resolution	208 × 80 dot matrix
Outline Dimension	65.0 × 34.0 × 2.85 (mm)
VA	60.0 × 25.0 (mm)
Operating Temperature	-40°C ~ +75°C
Storage Temperature	-40°C ~ +80°C
Reliability	85°C 85%RH*500 hours

Application

• Two-Wheeler

Two-Wheeler

Adopting mono LCD segment technology, the low-power VA segment display features wide viewing angles, high contrast, and strong ESD protection with excellent anti-interference capability. It offers high reliability and supports multi-color display options. When the screen is off, it delivers an ultra-deep black unified appearance. The display accurately presents core riding data such as speed, battery level, and mileage, meeting basic human-machine interaction requirements. Designed with integrated waterproof and shock-resistant construction, it provides extreme cost-effectiveness and strong customization advantages, making it a stable choice for the mass commuter two-wheeler market.



Product Parameter	
Structure	LCD+FPC+BLD
Product Type	LCM
Model	88142-05
Resolution	142 ICONS
Outline Dimension (mm)	52.1x31.1
Display Mode	VA
Transmissive Type	Negative, Transmissive
Viewing Area	46.34x29.1
Viewing Angle	6 o' clock
LCD Type	Segment Type



Product Parameter	
Structure	LCD+IC+FPC+BLD
Product Type	LCM
Model	88156-06
Resolution	156 ICONS
Outline Dimension (mm)	54.4x84.5
Display Mode	VA
Transmissive Type	Negative, Transmissive
Viewing Area	51.4x77
Viewing Angle	6 o' clock
IC	BU91R61ACH-3BW
LCD Type	Segment Type

Application

• Communication

Walkie-Talkies/Conference Terminals/Handheld Terminals

Diverse communication devices including walkie-talkies, conference terminals, and handheld terminals primarily utilize FSTN dot matrix displays and modules. Walkie-talkie products feature white backgrounds and high contrast. The company provides customers with the most cost-effective display solutions, serving as a trusted partner in the industry.



Intercom

Product Parameters	
Resolution	128 × 64 dots
Outline Dimension	35.75 × 31.65 × 2.6 (mm)
VA	28.78 × 20.97 (mm)
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-30°C ~ +80°C
Reliability	60°C 90%RH*120 hours



Conference Terminal

Product Parameters	
Resolution	131 × 64+ICON
Outline Dimension	79.2 × 42 × 8.5(mm)
VA	63.46 × 23 (mm)
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-30°C ~ +80°C
Reliability	60°C 90%RH*96 hours

Application

• Home Appliances

Refrigerators / Washing Machines / Microwave Ovens / Water Heaters

Providing diversified display solutions for a wide range of products, from small white goods like microwaves and ovens, to major appliances such as smart refrigerators, washing machines, water heaters, air conditioners, and fireplaces. Our VA products support large-size displays up to 10 inch.



Water Heater

Product Specifications	
Resolution	41 segments
Outline Dimension	93 × 38.8 × 8 (mm)
VA	88 × 29.5(mm)
Operating Temperature	-30°C ~ +80°C
Storage Temperature	-30°C ~ +80°C
Reliability	40°C 90%RH*1000 hours
Features	Field of view exceeds 60 degrees in all directions



Oven

Product Parameters	
Resolution	108 pen segments
Outline Dimension	168.5 × 45.5 × 12(mm)
VA	161 × 35.5 (mm)
Operating Temperature	-30°C~+80°C
Storage Temperature	-30°C ~ +80°C
Reliability	65°C 75%RH*3000 hours

Application

• Industrial Control

Temperature Controllers / Detection Instruments

The product's core advantage lies in its high reliability, delivering outstanding performance in anti-static, anti-interference, shock-resistant, and impact-resistant capabilities.

- Ultra-wide temperature range, low power consumption
- Stable operation within extreme temperature ranges



Product Specifications	
Resolution	320×180 dots
Outline Dimension	108.8 × 73.3 × 4.45 (mm)
VA	98 × 56 (mm)
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-20°C ~ +70°C
Reliability	60°C 95%RH*500 hours
Features	1.Ultra-wide temperature range and low power consumption. 2.Supports high-resolution display with a maximum of 240 multiplex duty (lines). 3.DFSTN products feature high contrast and a blacker background, achieving over 20% higher contrast ratio than standard FSTN products for superior display clarity.

• Light Valve

Welding Helmets

TOPTE is one of the industry ‘s pioneers in successfully developing high-end optical grade 1111 products. Products are designed and manufactured in strict compliance with international authoritative standardssuch as European Standard EN379 and American Standard ANSI Z87.1, offering an extremely high safety protection factor.



Product Parameters	
Structure	LCD+PIN
Outline Dimension	96.5 × 38 (MM)
Transmission Mode	Positive, transmissive
VA	89.5 × 35(MM)
Viewing Angle	10:30
Features	1.Wide viewing angle, fast response speed (up to 0.05 ms); 2.Wide brightness adjustment range (adjustable from 4# ~ 14#)

Application

• Automotive

Instrument Panel

TOPTE has been dedicated to the automotive display field for over a decade and stands as one of the industry's early manufacturers to obtain IATF 16949 certification. We have developed a series of highly flexible, customized solutions for the complex and variable application scenarios within vehicular environments. With high reliability and product stability at our core, we are committed to fully meeting the diverse demands of automotive displays.



Product Parameters	
Structure	LCD+IC+FPC+BL
Outline Dimension	220 × 150mm
Transmission Type	Negative, transmissive
VA	210 × 135mm
Viewing Angle	6 o'clock
Features	1.VA products feature high contrast ratios (≥1000:1). 2.ASTN offers high contrast and extremely wide viewing angles(≥50).

• Medical

Blood Glucose Monitors

Our product portfolio addresses core display requirements for medical devices, featuring high-resolution dot matrix screens, VA panels, and other specifications. These are widely used in portable medical equipment like blood pressure monitors and blood glucose meters, as well as various professional diagnostic instruments.



Product Parameters	
Resolution	47-segment
Outline Dimension	46.60 × 56.40 × 3.3 (mm)
VA	44.20 × 46.7 (mm)
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-20°C ~ +70°C
Reliability	60°C 90%RH*240 hours
Features	Precise grayscale display capability Exceptional stability performance.

Manufacturing Line

Original manufacturer production and quality control ensure efficient service and consistent quality



CTP



Provide products covering the full size range from 0.96 ~ 23.8 inch, spanning from micro-portable displays to mainstream desktop sizes.

Advantages

- **Full-process Expertise:** We possess complete in-house capabilities across the entire module manufacturing process, including **exposure, silk printing, assembly, FOG, and lamination** (both air bonding and optical bonding using OCA, OCF, or liquid optically clear adhesive).
- **One-Stop Solution:** We offer an integrated product line covering **CTP (GG, GFF) displays, TLM (Touch Panel with Liquid Crystal Display Module), and fully integrated display modules**.
- **IATF 16949 Certified Production:** Our dedicated production lines are **IATF 16949 certified**, specifically qualified and tailored for manufacturing automotive-grade products.
- **Advanced Technology Support:** We provide **ITO solutions and Metal Mesh technology services** to meet diverse design and performance requirements.

RTP



We offer a wide range of sizes to meet diverse device requirements, covering a spectrum from 1.3 inch to 21.5 inch.

Advantages

Rich selection of core configurations to fulfill the needs of various application scenarios:

- **4-Wire Series:** Supports three structural configurations: (F+G), (P+F+G), and (P+F+F+G).
- **5-Wire Series:** Supports two structural configurations: (F+G) and (P+F+G).
- **8-Wire Series:** Supports three structural configurations: (F+G), (P+F+G), and (P+F+F+G).

Application: ① MPOS ② Printing Devices ③ Industrial Control ④ HMI ⑤ Charging Stations ⑥ Serial Displays ⑦ Financial ⑧ Medical

CTP Product Overview

Application	Structure	Size	CG Thickness	Touch Points	Outline Dimension (mm)	Interface
POS	G+FF	5.5	1.1	5 points	149.7 x 76.05 x 1.45	I2C
	G+FF	4.0	0.7	5 points	115.13 x 60.38 x 0.95	I2C
Security & Access Control	G+F	4.3	1.1	Single Point	115.6 x 115.6 x 1.35	I2C
	G+F	7	0.7	Single Point	173 x 111.5 x 0.95	I2C
	G+FF	4.3	1.1	5 points	115.6 x 115.6 x 1.43	I2C
	G+G	7	0.7	5 points	173 x 111.5 x 1.3	I2C
	G+G	10.1	1.8	10 points	254 x 166 x 2.55	I2C
	G+FF	9	3.2+0.7	10 points	217.41 x 138.75 x 4.4, 5	I2C
	P+G	7	0.25	5 points	164.8 x 99.8 x 1.55	I2C
Smart Home	G+FF	9	3.2+0.7	10 points	217.41 x 138.75 x 4.4, 5	I2C
	G+G	8.6	1.1	5 points	198.4 x 128.9 x 3.65	USB
	G+G	12.1	1.8	5 points	265.50 x 208 x 3.95	USB
	P+G	7	0.25	5 points	164.8 x 99.8 x 1.55	I2C
Medical Instrument	G+G	10.1	1.1	10 points	239.56 x 163.56 x 2.0	I2C
	G+G	13.3	0.7	10 points	305.35 x 178.11 x 1.4, 5	I2C
	G+G	15.6	2.0	10 points	368.3 x 227.77 x 2.75	USB
Automotive	G+FF	15.6	1.6	10 points	373.63 x 233.34 x 2.1	I2C
	G+G	7	1.1	10 points	187.06 x 115.07 x 2.0	I2C
	G+G	8	0.7	10 points	212.8 x 116.9 x 1.93	I2C
Commercial	G+FF	27	3.2	10 points	755.36 x 542.60 x 3.7	USB
Education	G+G	21.5	2	10 points	520 x 312 x 2.95	USB
Smart Wearables	G+F	0.92	0.7	Single Point	26.4 x 25.81 x 0.88	I2C
	G+F	1.3	2	Single point	44.69 x 44.69 x 2.25, (Round)	I2C
	G+FF	1.2	1.3	5 points	39.7 x 39.7 x 1.55, (Round)	I2C
Others like Industrial Control	G+F	4	0.7	Single Point	114.4 x 61.2 x 0.95	I2C
	G+FF	10.8	0.55	5 points	253.8 x 159.8 x 1.0	I2C

RTP Product Overview

Product Series	Application	Structure	Outline Dimension (mm)	AA Size	Interface
4-wire display	Office Equipment	F+G	47.85 x 42.37	39.10 x 31.90	FPC
		F+G	82.15 x 53.40	74.10 x 46.20	FPC
		P+F+G	99.20 x 75.40	72.50 x 55.00	FPC
5-wire display	POS Financial	F+G	495.00 x 291.60	477.64 x 269.11	FPC
4-wire display	Charging Pile	F+G	164.20 x 99.10	153.50 x 85.40	FPC
4-wire display	Medical Equipment	F+G	164.50 x 99.65	152.90 x 84.75	FPC
		F+G	183.00 x 141.00	162.00 x 121.50	FPC
		F+G	228.20 x 175.40	212.20 x 159.40	FPC
5-wire display	Industrial Control Equipment	F+G	68.80 x 49.60	58.60 x 44.20	FPC
5-wire display		F+G	105.50 x 67.20	97.04 x 55.86	FPC
5-wire display		F+G	120.20 x 74.80	110.80 x 63.80	FPC
5-wire display		P+F+G	164.90 x 100.00	155.08 x 86.92	FPC
5-wire display		F+G+LCM	168.00 x 109.00	151.35 x 84.35	FPC
5-wire display		F+G	182.50 x 140.00	162.20 x 121.80	FPC
5-wire display		F+G	235.00 x 142.50	222.72 x 125.28	FPC
5-wire display		F+G	261.00 x 204.50	246.50 x 185.00	FPC
5-wire screen		F+G	271.27 x 205.74	246.00 x 184.50	FPC
5-wire display		F+G	324.50 x 251.00	304.10 x 228.10	FPC
5-wire screen		F+G	322.00 x 245.50	303.50 x 227.50	FPC
5-wire screen		F+G	348.00 x 273.60	302.40 x 226.90	FPC
5-wire screen		F+G	356.00 x 286.50	337.60 x 270.00	FPC
5-wire screen		P+F+G	382.40 x 323.40	339.92 x 272.34	FPC
5-wire display		F+G	68.80 x 49.60	58.60 x 44.20	FPC
5-wire display		F+G	105.50 x 67.20	97.04 x 55.86	FPC
5-wire display		F+G	120.20 x 74.80	110.80 x 63.80	FPC
5-wire display		P+F+G	164.90 x 100.00	155.08 x 86.92	FPC

Application (Touch Panel)



Financial
POS Terminals



Commercial
Printers



Security
Access Control



Automotive
Central Control



Industrial
HMI / Inspection Instruments



Medical
Pulse Oximeters / Surgical Monitors

Application

• Automotive

Center Stack Display

Aligned with automotive intelligence development needs, comprehensively covering core in-vehicle display scenarios. Professional display solutions for different functional areas such as center consoles and rear-seat entertainment screens, empowering automakers to create smarter, more comfortable in-vehicle display ecosystems.



Product Parameter	
Description	12.3" 1920 × 720 IPS
Structure	TLCM
LCD AA	292.032 × 109.512 (mm)
Operating Temperature	-30°C ~ 85°C
Storage Temperature	-40°C ~ 90°C
Connection Method	50-pin BTB
Brightness	800 cd/m² min, 1000 cd/m² typ
Features	High reliability and stability

• Commercial

POS Terminals

Covering multiple sizes and application scenarios, including compact POS terminals and supermarket checkout systems, to meet diverse customer needs.



Product Parameter	
Description	5.5" 720 × 1280 IPS
Structure	TLCM
LCD AA	120.96 × 68.04(mm)
Operating Temperature	-20~70°C
Storage Temperature	-30~80°C
Connection Method	ZIF
Brightness	320 cd/m² min, 370 cd/m² typ
Features	From touch panel to whole machine design

Application

• Home Appliances

Central Control Screen

Smart Home & Smart Appliances Application Scenarios: touch screen displays can be integrated into various appliances including refrigerators, washing machines, coffee makers, ovens, and more, enhancing the user's technological experience and enabling smart IoT connectivity.



Product Parameter		Features
Description	9" 1024 × 600 IPS	1.Customized designs for diverse appliance categories, enabling smart home integration. 2.Waterproof & oil-resistant design, high reliability, precise touch response.
Structure	TLCM	
LCD AA	196.61 × 114.15 (mm)	
Operating Temperature	-20~70°C	
Storage Temperature	-30~80°C	
Connection Method	ZIF	
Brightness	450 cd/m² min. 500 cd/m² TYF	

• Security

Smart Access Control

Mainstream 4.3-inch, 7-inch, and 10.1-inch access control terminals with clock-in and intercom functions. Designed for versatile applications in outdoor, semi-outdoor environments, featuring superior interference resistance and waterproof performance.



Product Parameter		Features
Size	7-inch	1.Full-lamination process sealing out moisture and dust. 2.Long-life LED backlight ensuring lasting clarity. 3.Anti-glare coating ensuring clear visibility in bright conditions. 4.Customizable design enabling outdoor/semi-outdoor applications.
LCD AA	154.21 × 85.92 (mm)	
Resolution	1024 × 600	
Outline Dimension	164 × 97.2 × 2.6(mm)	
Operating Temperature	-20°C ~ 70°C	
Storage Temperature	-30°C ~ 80°C	

Cooperative Partners

• Meters



• Elevator & Light Valve



• Automotive



• Overseas Customers



• Security & Finance



• Home Appliances & Medical



• Industrial Control



• Smart Wearables

