TECHTION
SIMAIRT

PRODUCTS CATALOGUE

Your Reliable ECO-Friendly Display Terminal Partner

COMPANY PROFILE

Techtion Smart is affiliated to Shenzhen Leadtek Electronics Co., Ltd. (referred to as Leadtek), and is the complete machine division founded by Leadtek in 2024. Relying on the technology, resources and management experience accumulated by Leadtek since its establishment in 2015, Techtion Smart provides customers with tailor-made low-carbon and environmentally friendly touch display terminal solutions.

Our strategic positioning: to accelerate the digital transformation of industries in various fields with low-carbon, energy-saving and eye-protection new display technologies, and to promote digital, economic innovation and sustainable development. We design Industrial Panel PC, Industrial Monitor, Rugged Panel PC, Outdoor Panel PC for vertical markets, with sizes ranging from 7 inch to 110 inch. Our products are mainly used in smart transportation, smart industry, digital signage.

COMPANY INTRODUCTION

01 Business Philosophy

▶ Leading High-Quality Development with Technology Innovation.

02 Company Culture

▶ Vision:
Display Green Smart Life

▶ Core Value:
Integrity, Sharing, Shared Responsibility, Win-Win

▶ Mission:
Your Reliable ECO-Friendly Display Terminal Partner

03 Company Advantages

▶ Product: Our product roadmap is aligned with future industry and market trends, offering full-range customization with display sizes from 7 to 110 inches.

▶ Resources: With strong resource integration capabilities, we optimize the allocation of diverse resources to improve efficiency and reduce overall costs.

▶ Certification: Our complete product portfolio is fully compliant with international standards and certified with RoHS, CE, FCC,EN50155, and other global certifications.

▶ Service: Flexible, Efficient, Professionalrvice.

PRODUCTS: ECO-FRIENDLY SERIES

▌Reflective Display

28.0"

Product Usage:

· Electronic Bus Stop Display

Features

Sunlight Readable		Ultra Low Power Consumption: Uses Ambient Light During the Day and Automatically Turns on The Front Light at Night	
I/O Ports: Ethernet, Wi-Fi, 4G, USB, etc.		Optional: Solar Power Supply (Built-in Battery)	
Mainboard: ARM		OS: Android / Linux	
Tempered Glass: Anti-UV and IR Blocking		IK Rating: IK08-IK10	
Front Panel: IP65		Installation: VESA/Side/Bottom	
Eye-Friendly		Operating Temperature: −20~60℃	
Available Sizes: 23.8"/28"/32"			

▌Transflective Display

15.6"

Product Usage:

- Outdoor Self-Service Terminals
- Outdoor Intelligent Ticketing and Payment Systems
- Outdoor Industrial Control Terminals
- Outdoor Traffic Management Systems, etc.

Features

Sunlight Readable	Low Power Consumption
Automatic Brightness Adjustment (Built-in Light Sensor)	Touch(PCAP): Waterproof Touch and Glove Touch (EETI IC)
Mainboard: AD Board/ARM/X86	OS: Windows/Android/Linux
Tempered Glass: Anti-UV and IR Blocking	IK Rating: IK06 - IK10
Front Panel: IP65	Installation: Open-Frame/VESA
Available Sizes: 15.6"/21.5"/32"/55"	Operating Temperature: −20~60℃

PRODUCTS: OF SERIES

▌Outdoor High-Brightness Display

32.0"

Product Usage:

· Public Transportation Information Display

· Outdoor Advertising and Commercial Information Display

· Intelligent Transportation and Road Information Display

· Tourist Attraction Navigation Display, etc.

Features

Sunlight Readable

Automatic Brightness Adjustment (with Light Sensor)

Mainboard: AD Board / ARM / X86

Tempered Glass: Anti-UV and IR Blacking

I/O Ports : Ethernet,Wi-Fi,4G,USB,RS232,RS485,HDMI, etc.

Brightness: 1000-3000 nits

IP Rating: IP65

Available Sizes: 15.6"/21.5"/32"/43"/55" (TFT-LCD)

Touch(PCAP): Waterproof Touch and Glove Touch (EETI IC)

OS: Windows / Android / Linux

Backlight Lifespan: 50,000 Hours

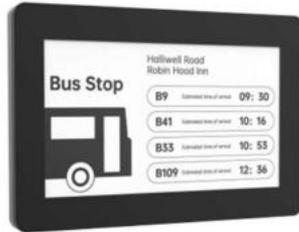IK Rating: IK08-IK10

Optical Bonding

Installation: Edge/Open-Frame

Operating Temperature: −20~70℃

PRODUCTS: E-PAPER SERIES

▌ E-Paper (E-Ink) Electronic Bus Stop Display

31.2"

Power Consumption

Status		13.3 inch	28 inch	31.2 inch
Headlights On	Continuous Update		Typ: 4.34 W	Typ: 5.48 W
	Static Display		TyP: 4.04 W	Typ: 4.48 W
Headlights Off	Continuous Update		Typ: 3.5 W	Typ: 4.2 W
	Static Display		Typ: 3.2 W	Typ: 3.2 W

Features

- Sunlight Readable
- I/O Ports : Ethernet, Wi-Fi, 4G, USB, etc.
- Mainboard: ARM
- Tempered Glass: Anti-UV and IR Blocking
- Front Panel: IP65
- Eye-Friendly
- Available Sizes: 13.3"/28"/31.2"

- Monochrome/Black and White
- Ultra-Low Power Consumption: Uses Ambient Light During the Day, Automatically Turns on Front Light at Night
- Optional: Solar Power Supply (Built-in Battery needs to be Purchased Separately)
- OS: Android
- IK Rating: IK08-IK10
- Installation: VESA/Side/Bottom
- Operating Temperature: −15~65℃

PRODUCTS: E-PAPER SERIES

E-Paper Passenger Information Display

31.5"

Product Usage:

Passenger Information Display

・ High-Speed Rail Station

・ Metro Station

・ Airport

Features

Sunlight Readable	Ultra-Low Power Consumption: Relies on Ambient Light Display Day and Night
I/O Ports: Ethernet, Wi-Fi, 4G, USB, etc.	Optical Bonding
Mainboard: ARM	OS: Android
E-Ink Spectra 6-Colour E-Paper	IK Rating: IK05-IK07
Eye-Friendly	Operating Temperature: 0~50℃
Available Sizes: 25.3" / 31.5"	

PRODUCTS: STRETCHED SERIES

Stretched Bar Display

28.6"

Product Usage:

Passenger Information Display (Bus / Metro)

Features

- Sunlight Readable
- I/O Ports: Ethernet, Wi-Fi, 4G, USB, RS232, RS485, etc.
- Mainboard: ARM
- Backlight Lifespan: 50,000 Hours
- Shock and Vibration Resistant Design
- Multifunctional Information Display: Can Simultaneously Display Route Information and City Advertisements
- Available Sizes: 28.1"/28.2" / 28.6"/ 36.6"/ 37.6"/57.6"

- Voltage: DC 9-36V/DC 24V/DC 12V
- Brightness: 500-1000 nits
- Can be Connected to In-Vehicle Content Management System (CMS) and Control System for Dynamic Updates
- OS: Android/Linux
- Protection Level: IK05-IK07
- Installation: Spatial Adaptability
- Operating Temperature: 0~60℃

PRODUCTS: CHLCD SERIES

▌ChLCD Electronic Bus Stop Display

31.5"

Product Usage:

・Electronic Bus Stop Display

Features

- Sunlight Readable

- I/O Oports: Ethernet,Wi-Fi,4G,USB,HDMI, etc.

- Mainboard: ARM

- Tempered Glass: Anti-UV and IR Bolcking

- IP Rating: IP65

- Eye-Friendly

- Available Sizes: 13.3"/31.5"

- Ultra-Low Power Consumption:
  Uses Ambient Light During the Day, Front Light Automatically Turns on at Night

- Options: Supports Solar Power Generation (Built-in Battery)

- Viewing Angle: Wide Angle

- OS: Android

- IK Rating: IK08-IK10

- Limited Color Display
  (Colors Achieved by Selective Reflection from Cholesteric Liquid Crystal Helical Structure)

- Operating Temperature: −30~80℃

PRODUCTS: LD SERIES

Local-Dimming Display

43.0"

Product Usage:

· Public Transportation Information Display

· Outdoor Advertising and Commercial Information Display

· Intelligent Transportation and Road Information Display

· Tourist Attraction Navigation Display, etc.

Features

- Sunlight Readable
- Automatic Brightness Adjustment (with Light Sensor)
- Mainboard: AD Board / ARM / X86
- Tempered Glass: Anti-UV and IR Blacking
- I/O Ports : Ethernet,Wi-Fi,4G,USB,HDMI, etc.
- Brightness: 2000-5000 nits
- Colour Gamut (NTSC Ratio): 85-105%
- IP Rating: IP66
- Available Sizes: 32"/43"/55"/65"/75"

- Dynamic Ultra-Low Power Consumption (Average Energy Saving of 35%)
- Touch(PCAP): Waterproof Touch and Glove Touch (EETI IC)
- OS: Windows/Android/Linux
- Local Dimming: 1152 Zones
- Contrast Ratio: 100000:1
- Backlight Lifespan: 50,000 Hours
- IK Rating: IK10
- Optical Bonding
- Operating Temperature: −20~70℃

PRODUCTS: STAINLESS STEEL SERIES

▌Outdoor Rugged Display

Product Usage:

· Outdoor Self-Service Terminals (Car washes, Gas Stations)

· Marine Vessel Control Terminals

· Outdoor Information and Advertising Signage

· Outdoor Construction Machinery, etc.

Features

Sunlight Readable

Automatic Brightness Adjustment (with Light Sensor)

Mainboard: AD Board / ARM / X86

Tempered Glass: Anti-UV and IR Blacking

I/O Ports : Ethernet,Wi-Fi,4G,USB,RS232,RS485, etc.

Brightness: 1000-3000 nits

IP Rating: IP67-IP69

Available Sizes:
① 15.6"/21.5"/32"/43"/55" (Transflective Display)
② 32"/43"/55" (Local Dimming)

Low Power Consumption

Corrosion-Resistant and Durable Stainless Steel Construction

Touch(PCAP): Waterproof Touch and Glove Touch (EETI IC)

OS: Windows / Android / Linux

Backlight Lifespan: 50,000 Hours

IK Rating: IK08-IK10

Optical Bonding

Installation: VESA/Desktop Stands/Floor Stands

Operating Temperature: −20~70℃

PRODUCTS: J SERIES

Industrial Monitor and Industrial Panel PC

15.0"

Product Usage:

- Equipment Operation Terminals (HMI)
- Factory Production Lines
- Industrial Control Cabinets
- Power & Energy Facilities
- Ports & Logistics
- Rail Transit Systems

Features

- Ugged Industrial-Grade Design, Aluminum Front Frame with Die-Cast Rear Housing
- Mainboard: AD Board/ARM/X86
- 3 mm Anti-Glare (AG) Tempered Glass
- I/O Ports: HDMI,DP,VGA,DVI,USB,RJ45,COM, etc.
- Brightness: 350-500 nits (High-Brightness Option Aavailable)
- Front Panel: IP65
- Available Sizes (TFT-LCD): 10.1" / 10.4" / 12.1"/ 13.3"/ 15"/ 15.6" / 17"/ 19"/ 21.5"

- Power Input: DC 12V (Standard) / DC 24V / DC 9-36V
- Touch(PCAP): Waterproof Touch and Glove Touch (EETIIC)
- OS: Windows/Android/Linux
- Backlight Lifespan: 50,000 Hours
- 24/7 Operation
- Installation: Panel Mount/ VESA
- Operating Temperature: − 20~70℃

PRODUCT ROADMAP

◆ TFT-LCD DISPLAY

10.1" -32"

10.1" 1280*800
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

10.4" 1024*768
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

12.1" 1280*800/1024*768
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

13.3" 1920*1080
Standard brightness: 400nits
Customizable brightness: 500-1000nits

15" 1024*768
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

15.6" 1920*1080
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

17" 1280*1024
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

19" 1280*1024
Standard brightness: ≤500nits
Customizable brightness: 500-1000nits

21.5" 1920*1080
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

32.0" 1920*1080
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

36.6" -57.6" (Stretched Bar Display)

28.1" 1920*413
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

28.2" 1920*440
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

28.6" 1920*560
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

36.6" 1920*290
Standard brightness: 1000nits
Customizable brightness: 500-1500nits

37.6" 1920*540
Standard brightness: ≤ 500nits
Customizable brightness: 500-1500nits

57.6" 3840*814
Standard brightness: ≤ 500nits
Customizable brightness: 500-1000nits

49.0" -98.0"

49" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

55" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

65" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

75" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

86" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

98" 3840*2160
Standard brightness: ≤ 2000nits
Customizable brightness: 1500-2500nits

PRODUCT ROADMAP

◆ LOW POWER DISPLAY TERMINAL

E-paper Display

13.3" 1600*1200	28" 3840*1080	31.2" 2560*1440
Display Colour: Monochrome	Display Colour: Monochrome	Display Colour: Monochrome
Light Source: Front Light + Ambient Light	Light Source: Front Light + Ambient Light	Light Source: Front Light + Ambient Light
28.5" 2160*3060	31.5" 2560*1440	25.3" 3200*1800
Display Colour: Spectra6	Display Colour: Spectra6	Display Colour: Spectra6
Light Source: Ambient Light	Light Source: Ambient Light	Light Source: Ambient Light

Eco-Friendly Display

15.6" 1920*1080	21.5" 1920*1080	31.5" 1920*1080
Transflective Display	Transflective Display	Transflective Display
Light Source: Back Light + Ambient Light	Light Source: Back Light + Ambient Light	Light Source: Back Light + Ambient Light
55" 1920*1080	23.8" 1920*1080	28" 3840*2160
Transflective Display	Reflective Display	Reflective Display
Light Source: Back Light + Ambient Light	Light Source: Front Light + Ambient Light	Light Source: Front Light + Ambient Light

Local Dimming Display

32" 1920*1080	43" 1920*1080	55" 1920*1080/3840*2160
Zones：1152	Zones: 1152	Zones: 1152
Customizable brightness: 2500-5000nits	Customizable brightness: 2500-5000nits	Customizable brightness: 2500-5000nits
65" 3840*2160	75" 3840*2160	
Zones: 1152	Zones: 1152	
Customizable brightness: 2500-5000nits	Customizable brightness: 2500-5000nits	

RELIABILITY TESTING

DC Voltage Regulator/Electronic Load

Withstand Voltage Test

Static Electricity Test

48 Hour Aging Test

Salt Spray Test
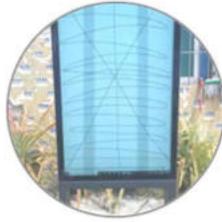
Programmable Rainfall Test

Programmable
High and Low Resistance Test

Programmable
Temperature and Humidity Test
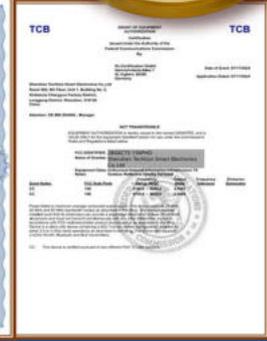
IK Rating Test

UV Test

Simulated Car Vibration Test

Drop Test

TECHNICAL SUPPORT

Linux™

KYLIN 银河麒麟

Windows

Android

intel Celeron

intel Core i3

Rockchip RK3288
Mali-T764
Cortex-A17

Rockchip RK3368
Octa-Core
64-Bit

Rockchip RK3399

intel Core i5

intel Core i7

Rockchip RK3568
Quad Core

Rockchip RK3566
Quad Core

Rackchip
RK3588

CERTIFICATE OF HONOR

+86 755 84827079

sales@techtionsmart.com

www.techtionsmart.com

Shenzhen Techtion Smart Electronics Co.,Ltd.

Add: Room 902, 9th Floor, Shenzhou Tianyun Building, Bell Road, Bantian Street,LonggangDistrict, Shenzhen China.