



# Industrial Display Solutions



Display Excellence

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JDI Taiwan Kaohsiung Branch (7F 6-8)

## Introduction

JDI Taiwan Kaohsiung Branch (JDIT-K), a new branch of JDI Taiwan, was formed in Dec 2021 to advance the design, development and sales of market leading industrial LCD display business previously handled by Kaohsiung Opto-Electronics Inc.

Since 2012, Kaohsiung Opto-Electronics Inc., which carried over the display business from Kaohsiung Hitachi Electronics, has explored the use of displays in various industrial applications while strengthening its cooperation with JDI's AutoTech business unit to build the comprehensive

Rugged+ portfolio and grown the business with value-added solutions. JDIT-K aims to be the market leader in industrial displays.

In Oct. 2021, JDI sold Kaohsiung Opto-Electronics Inc. to Wistron (Taiwanese EMS) but kept Design, Sales and Marketing, and the KOE brand, with the goal of concentrating on the continual enhancement of an extensive range of high-quality and performance-optimised display solutions. Based in Kaohsiung Cianjhen Technology Industrial Park, JDIT-K will maintain a renewed Japanese dedication for the design and sales of high-quality products. The new office is located on the seventh floor of the Forward-Looking Innovation Building.

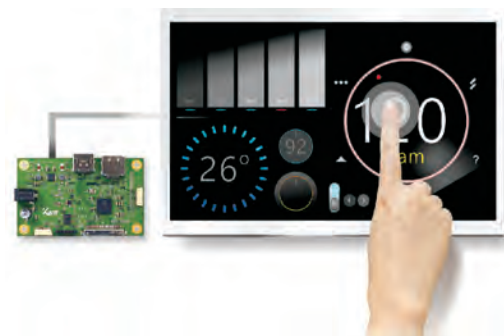
JDIT-K is proud of inheriting an established LCD heritage. Almost 40 years ago, as an early pioneer of LCD technology, Hitachi developed and produced simple character and dot matrix displays. More recently the development and introduction of IPS, LTPS, and Pixel Eyes technology reiterated JDI's commitment to providing display excellence. Continued investment in R&D will ensure that JDIT-K stays at the forefront of evolving and ground-breaking display technology.

Japan Display Inc. (JDI) was formed in 2012 by the merger of the small and medium size LCD panel businesses of Hitachi, Sony and Toshiba in conjunction with the Innovation Network Corporation of Japan (INCJ). In January 2021, JDI adopted a new management structure to accelerate fundamental changes in how to run the business and better serve WW customers. At JDI we want to create a better world, one rich in opportunity for all. We are empowering each and every JDI member globally to welcome challenge, bring fresh perspectives to solving customer problems, and drive world-changing technological innovation. JDI is targeting global No. 1 technology leadership to best serve customers and deliver PersonalTech for a better world.



## Evolving LCD technology

Developing cost effective display solutions, enhancing mature technology with new and compatible products, improving LCD optical design, introducing high reliability modules for industrial applications are just some of the challenges that JDI-K are undertaking to continually evolve and develop LCD technology in the 21st century. JDI-K's established knowledge and experience of LCD design and development are enabling LCD technologies to progress and migrate to new and exciting display modules.



## Rugged Plus

Developed using automotive display experience, JDI-K's Rugged<sup>+</sup> Display modules are intended for use in demanding industrial and harsh environmental conditions. JDI-K Rugged<sup>+</sup> modules are capable of providing reliable and consistent operation under the severe and rigorous conditions found in some industrial applications while still providing exceptional optical performance. The entire range of Rugged<sup>+</sup> displays feature industrial environment operating specifications with high brightness, long-life LED backlights and will provide dependable operation between -40°C and +85°C.

### Rugged Plus Features

- Strong optical performance
- Highly resistant to ESD, mechanical shock and vibration
- WTR -40°C to +85°C
- Zero Bright Dot Defect



## LTPS Technology

A low temperature poly-silicon (LTPS) TFT LCD, prepared by forming polycrystalline silicon on a glass substrate at relatively low temperatures, achieves high carrier mobility in TFT. Therefore, LTPS TFT LCD realizes a high resolution and high density display that cannot be achieved with A-si by integrating part of the display drive circuitry on the glass substrate. JDI has developed LTPS displays, and has introduced one of the world's highest density display prototypes.

### Low Temperature Poly-silicon

- High resolution
- High aperture ratio
- System on glass
- Low power consumption



IPS was the first LCD technology to provide exceptional colour saturation and colour stability, excellent contrast and deep black levels with a 176° wide vertical and horizontal viewing angles.

IPS has been further developed and evolved with Advanced-Super IPS, IPS Pro and most recently IPS NEO. IPS NEO has a much higher and more stable image performance over viewing angle than any other TFT technology. JDI-K will continue to develop and improve IPS technology to provide the best wide angle viewing TFT display solution.

## Outdoor Outdoor readable and anti-vibration TFT Display

The use of TFT displays in diverse markets continues to expand. Displays are needed in a wide variety of extreme environments which can compromise the display image performance. Outdoor readable TFT are engineered specifically for use in high ambient light conditions ensuring a high quality image is maintained even under direct sunlight. Moreover, JDI is able to support various surface coating, such as anti-glare (AG), anti-reflective (AR), either on the top polarizer or on the cover lens depending on the environmental demand.

JDI has a long experience in automotive and industrial markets. With our engineering expertise, we can optimize the backlight structure to improve the mechanical robustness for severe mechanical shock and vibration applications. Additionally, high brightness is achieved within wide temperature swings while maintaining consistent contrast in extreme environments, suitable for applications such as Construction, Agriculture, Transportation, Marine and ruggedized portable devices.



### 1500 nits

- 7" WVGA, TN
- 8" WVGA, TN
- 10.4" SVGA, TN
- 12.1" WXGA, IPS (CR 1000:1)
- 15.6" FHD, IPS (CR 1200:1)

### 1400 nits

- 6.4" XGA, IPS (CR 800:1)

### 1300 nits

- 5" WVGA, IPS (CR 1300:1)
- 10.2" FHD, IPS (CR 1000:1)
- 10.4" XGA, IPS (CR 1000:1)
- 12.1" WXGA, IPS (CR 1000:1)

### 1200 nits

- 7" WVGA, IPS (CR 1000:1)
- 7" FHD, IPS (CR 1000:1)
- 8" WVGA, IPS (CR 1000:1)
- 10.3" WXGA, IPS (CR 1400:1)
- 11.6" FHD, IPS (CR 1300:1)

### 1000 nits

- 5" VGA, IPS (CR 1000:1)
- 6.5" VGA, TN
- 7" WXGA, IPS (CR 1000:1)
- 9" WVGA, IPS (CR 1000:1)
- 10.1" WXGA, IPS (CR 1000:1)
- 10.6" WXGA, IPS (CR 1000:1)
- 12.1" XGA, IPS (CR 1000:1)
- 12.3" HSXGA, IPS (CR 1000:1)
- 12.3" HD, IPS (CR 1000:1)
- 15" HD, IPS (CR 1000:1)
- 15.8" IPS (CR 1000:1)

## Added Value Display Solutions-NFC

JDI Near-field communication (NFC) is a short-range wireless connectivity technology that uses magnetic field induction to enable communication between devices when brought within close proximity of one another. With NFC function integrated into our displays, customers end products can feature unique characteristics with contactless, close proximity and very low power consumption technology. Additional security measures allow connection to only one machine at a time, with high confidentiality communication allowing safe authentication of credit card transaction. JDI is able to integrate our NFC function into the display module minimizing the mechanical design and optimizing the location of the antenna resulting in a more compact and secure experience for the user.

## Added Value Display Solutions-High color gamut

JDI High Color Gamut displays offers a significant improvement in visual performance, enhancing panel applications across various industries. The enriched color range provides more vibrant, accurate, and nuanced color reproduction, essential for markets such as graphic design, digital media, and medical imaging. This technology elevates the user experience, ensuring images and videos display better optical precision. Color saturation is vastly expanded which is beneficial to those demanding a wide color gamut and precise color reproduction. JDI High Color Gamut is suitable for a wide use of applications such as medical devices, avionics, in-vehicle displays and marine vessels or anywhere when used outdoor in high ambient lighting conditions.

## Added Value Display Solutions- Industrial Monitor and System Solutions

An expanding range of value added services and products including projected capacitive touch screens, glass bonding, analogue to digital video cards, high brightness backlights, and semi-custom and custom display development are supported. With the addition of a touch panel through to the development of a fully integrated open frame monitor, all display solutions can be realised to aid and enhance the user experience.

### The key features include:

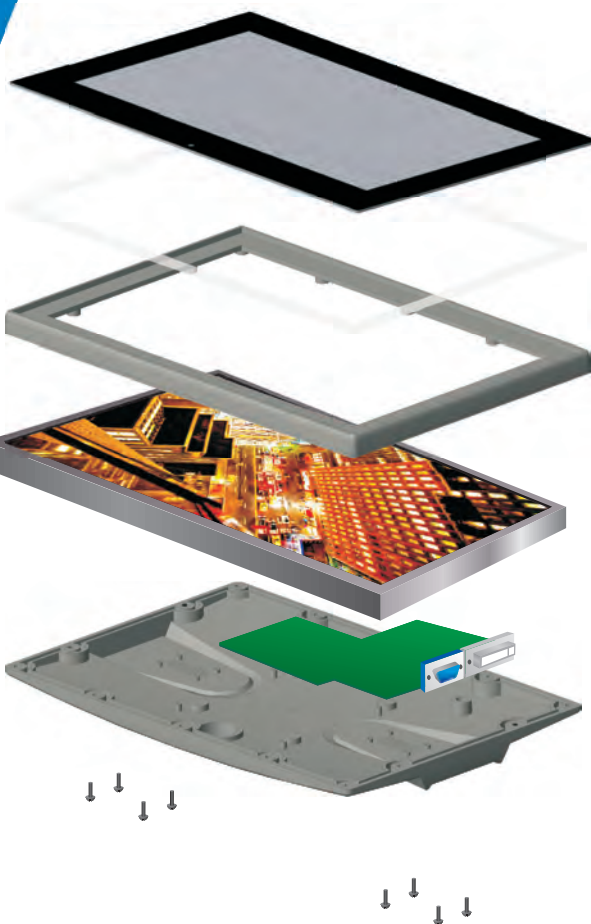
- highly accurate and flexible touch interactions
- support for multiple touch points - up to 10
- remains fully functional under up to 8mm protective cover glass
- water and moisture resistance - wet fingers or gloves
- enables enhanced optical performance
- optional optical bonded cover glass

## Projected Capacitive Touchscreens

Expand standard touch panel line-up for screen-sizes range from 7-inch up to 12.3-inch with resolution ranging from 800x480 pixels up to 1920 x 1200 pixels.

### Standard Pcap TP line-up

Size	Resolution	Part Number	Mode	Pcap TP interface	LCM Brightness cd/m <sup>2</sup>
7.0"	800 x 480	TX18D210VM0BAA	IPS	iC/USB	1200
7.0"	800 x 480	TX18D211VM0BAA	IPS	iC/USB	1200
7.0"	1920 x 1080	TX18D200VM0EAA	IPS	USB	1200
7.0"	1920 x 1080	TX18D204VM0BAA	IPS	USB	600
7.0"	1280 x 768	TX18D212VM0BAA	IPS	iC/USB	1500
8.0"	800 x 480	TX20D200VM5BAA	TN	iC	1000
8.0"	1280 x 768	TX20D207VM0AAA	IPS	iC	1200
10.1"	1920 x 1200	TX26D202VM0BAA	IPS	USB	800
10.1"	1280 x 800	TX26D207VM0AAA	IPS	USB	1000
10.4"	800 x 600	TX26D200VM5BAA	TN	USB	1000
10.4"	1024 x 768	TX26D211VM0BAA	IPS	USB	1300
10.6"	1280 x 768	TX27D200VM0AAA	IPS	iC	1000
12.1"	1280 x 800	TX31D208VM0BAA	IPS	iC/USB	1500
12.3"	1280 x 480	TX31D200VM0BAA	IPS	iC	1000



## Analogue to digital boards

JDIT-K's compact, embedded video driver boards enable a cost-effective and easy-to-use display enhancement. The fully integrated analogue to digital video circuitry supports multiple interface options including VGA, DVI-D, HDMI and DisplayPort. On-board software provides on-screen display functions for backlight dimming, image scaling and optical adjustments.



## Higher Definition Displays

Higher definition display enables highly accurate representation of image detail such as colour gradients and authentic colour reproduction. Excellent optical performance is maintained with high contrast ratio and high brightness specification enabling bright, sharp display images. Exceptional colour performance and image clarity at all viewing angles are particularly important in professional broadcast and medical imaging applications

### Applications

The development of higher definition TFT reflects the trend for higher pixel density and enhanced image clarity found in consumer devices such as monitors, tablets and smartphones. The use of higher resolution displays with greater pixel density enables accurate reproduction and representation of graphical information such as measurement and diagnostic images, and video reproduction.

## High Definition

### HD

Size	Resolution	Aspect ratio	Part Number	PPI	LCD Technology	LCD interface	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Dimensions	Features highlight	
NEW! 7.0"	1280 x 768	16:9	TX18D212VM0BAA	213	LTIPS	IPS	LVDS	1500	1000:1	Built-in	164.4 x 105 x 13.5	Rugged+
8.0"	1280 x 768	16:9	TX20D207VM0AAA	187	LTIPS	IPS	LVDS	1200	1400:1	Built-in	189.5 x 119.4 x 11.6	Rugged+
10.1"	1280 x 800	16:10	TX26D207VM0AAA	150	A-si	IPS	LVDS	1000	1500:1	Built-in	231 x 153.5 x 11.07	Rugged+
10.3"	1920 x 720	8:3	TX26D206VM0BAA	200	LTIPS	IPS	LVDS	1200	1000:1	Built-in	259 x 111.4 x 14.2	Rugged+
NEW! 12.3"	1920 x 720	8:3	TX31D203VM0EAC	167	LTIPS	IPS	LVDS	1000	1200:1	Built-in	308.5 x 130.2 x 12.3	Rugged+
15.8"	2560 x 600	-	TX40D200VM0BAA	166	A-si	IPS	Display Port	400	1300:1	Built-in	409.8 x 109.5 x 14.5	IPS
15.8"	2560 x 600	-	TX40D201VM0BAB	166	A-si	IPS	LVDS	1000	1300:1	n/a	409.8 x 109.5 x 14.5	IPS

### Full HD

Size	Resolution	Aspect ratio	Part Number	PPI	LCD Technology	LCD interface	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Dimensions	Features highlight	
NEW! 7.0"	1920 x 1080	16:9	TX18D200VM0EAA	315	LTIPS	IPS	LVDS	1200	1000:1	Built-in	169 x 104 x 10	Rugged+
7.0"	1920 x 1080	16:9	TX18D204VM0BAA	315	LTIPS	IPS	LVDS	600	800:1	Built-in	169 x 103 x 4	Slim mechanical design
10.1"	1920 x 1200	16:10	TX26D202VM0BAA	224	A-si	IPS	LVDS	800	800:1	Built-in	232.1 x 153.2 x 4.7	FHD
10.2"	1920 x 1080	16:9	TX26D208VM0AAA	216	LTIPS	IPS	LVDS	1300	1000:1	Built-in	241.9 x 147.8 x 12.6	Rugged+
NEW! 11.6"	1920 x 1080	16:9	TX29D200VM0AAA	190	LTIPS	IPS	LVDS	1200	1300:1	Built-in	275 x 163.8 x 12.1	Rugged+
15.6"	1920 x 1080	16:9	TX40D202VM0BAA	141	A-si	IPS	LVDS	1500	1200:1	Built-in	367.86 x 219.51 x 14.71	High color gamut

## Rugged Plus Displays for Extreme Environmental Conditions

All of JDIT-K's Rugged Plus displays are designed to function in challenging and harsh environmental conditions. The entire range of Rugged Plus displays feature industrial environment operating specifications with high brightness, long-life LED backlights and will ensure reliable operation between -40 °C and +85 °C.

Exceptional optical performance is ensured as many Rugged Plus displays utilise JDIT-K's IPS Pro technology, which delivers exceptional colour saturation, colour stability, contrast and black levels with a 176° wide vertical and horizontal viewing angle.

JDIT-K's Rugged Plus displays are targeted for use in high reliability industrial, medical, marine, automotive and aerospace applications where consistent and guarantee operation under extreme temperature, mechanical shock and vibration is a necessity.



## Rugged Plus Displays

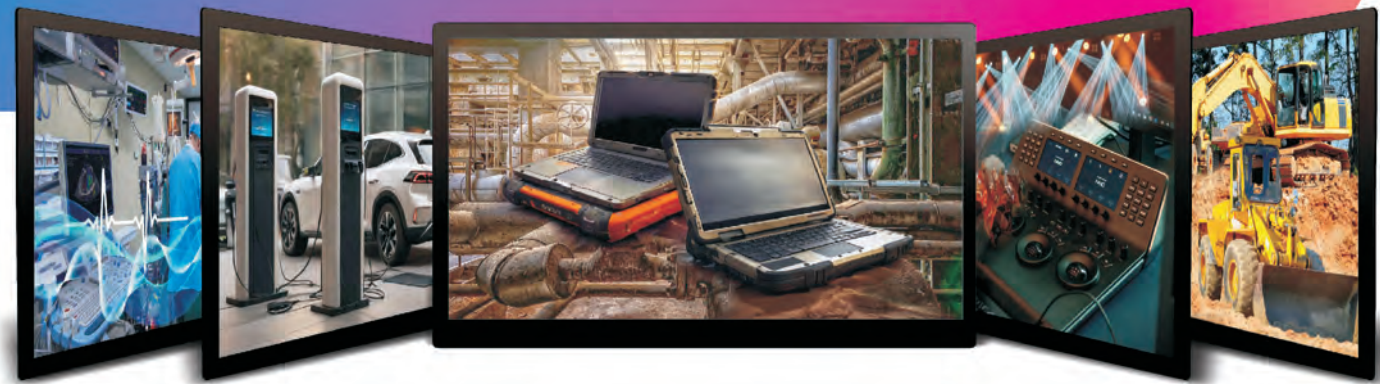
Size	Resolution	Aspect ratio	Part Number	LCD Technology	LCD interface	Touchscreen Version	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Top.(°C)	Tst.(°C)	Dimensions	
4.2"	480 x 272	16:9	TX11D201VM0BAA	A-si	IPS	CMOS	n/a	750	1500:1	Built-in	-40 - 85	-40 - 90	102.5 x 69 x 9.8
7.0"	800 x 480	16:9	TX18D205VM0BAA	LTIPS	IPS	CMOS	On request	800	1000:1	Built-in	-40 - 85	-40 - 90	167.7 x 109.5 x 9.0
7.0"	800 x 480	16:9	TX18D206VM0BAA	LTIPS	IPS	LVDS	On request	800	1000:1	Built-in	-40 - 85	-40 - 90	167.7 x 109.5 x 9.0
<b>NEW!</b> 7.0"	1920 x 1080	16:9	TX18D200VM0EAA	LTIPS	IPS	LVDS	Pcap T/P	1200	1000:1	Built-in	-40 - 85	-40 - 90	169 x 104 x 10
7.0"	800 x 480	16:9	TX18D210VM0BAA	LTIPS	IPS	CMOS	On request	1200	1000:1	Built-in	-40 - 85	-40 - 90	167.7 x 109.5 x 9.0
7.0"	800 x 480	16:9	TX18D211VM0BAA	LTIPS	IPS	LVDS	On request	1200	1000:1	Built-in	-40 - 85	-40 - 90	167.7 x 109.5 x 9.0
<b>NEW!</b> 7.0"	1280 x 768	16:9	TX18D212VM0BAA	LTIPS	IPS	LVDS	Pcap T/P	1500	1000:1	Built-in	-40 - 85	-40 - 90	164.4?x 105.0?x13.5
7.0"	800 x 480	16:9	TX18D216VM0BAA	LTIPS	IPS	LVDS	On request	1200	1000:1	Built-in	-40 - 85	-40 - 90	167.7 x 109.5 x 9.0
8.0"	1280 x 768	16:9	TX20D207VM0AAA	LTIPS	IPS	LVDS	Pcap T/P	1200	1000:1	Built-in	-40 - 85	-40 - 90	189.5 x 119.4 x 11.6
8.0"	800 x 480	16:9	TX20D208VM0BAA	LTIPS	IPS	LVDS	n/a	1000	1000:1	Built-in	-40 - 85	-40 - 90	190.8 x 120.5 x 15.7
9.0"	800 x 480	16:9	TX23D202VM0BAA	A-si	IPS	LVDS	R-T/P	500	1000:1	Built-in	-40 - 85	-40 - 90	218 x 135 x 11.15
9.0"	800 x 480	16:9	TX23D203VM0BAA	A-si	IPS	LVDS	R-T/P	1000	1000:1	Built-in	-40 - 85	-40 - 90	218 x 135 x 11.15
10.1"	1280 x 800	16:10	TX26D207VM0AAA	A-si	IPS	LVDS	Pcap T/P	1000	1500:1	Built-in	-40 - 85	-40 - 90	231 x 153.5 x 11.07
10.2"	1920 x 1080	16:9	TX26D208VM0AAA	LTIPS	IPS	LVDS	n/a	1200	1000:1	Built-in	-40 - 85	-40 - 90	241.9 x 147.8 x 12.6
10.3"	1920 x 720	8:3	TX26D206VM0BAA	LTIPS	IPS	LVDS	n/a	1200	1000:1	Built-in	-40 - 85	-40 - 90	259 x 111.4 x 14.2
10.6"	1280 x 768	16:9	TX27D200VM0AAA	LTIPS	IPS	LVDS	Pcap T/P	1000	1000:1	Built-in	-40 - 85	-40 - 90	250 x 157 x 8.9
10.6"	1280 x 768	16:9	TX27D201VM0AAA	LTIPS	IPS	LVDS	On request	1000	1000:1	Built-in	-40 - 85	-40 - 90	250 x 157 x 8.9
<b>NEW!</b> 11.6"	1920 x 1080	16:9	TX29D200VM0AAA	LTIPS	IPS	LVDS	n/a	1200	1300:1	Built-in	-40 - 85	-40 - 90	275 x 163.8 x 12.1
12.3"	1280 x 480	8:3	TX31D200VM0BAA	A-si	IPS	LVDS	Pcap T/P	1000	1000:1	Built-in	-30 - 80	-40 - 90	320 x 130 x 12.1
<b>NEW!</b> 12.3"	1920 x 720	8:3	TX31D203VM0EAC	LTIPS	IPS	LVDS	n/a	1000	1300:1	Built-in	-40 - 85	-40 - 90	333.1 x 150.5 x 12.3
15"	1920 x 720	8:3	TX38D203VM0BAA	LTIPS	IPS	LVDS	n/a	1000	1000:1	Built-in	-40 - 85	-40 - 90	374.5 x 154.5 x 18.15

## Wide Format Displays

Size	Resolution	Aspect ratio	Part Number	LCD Technology	LCD interface	Touchscreen Version	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Dimensions	Features highlight	
4.2"	480 x 272	16:9	TX11D201VM0BAA	A-si	IPS	CMOS	n/a	750	1500:1	Built-in	102.5 x 69 x 9.8	Rugged+
4.3"	480 x 272	16:9	TX11D06VM2AAA	A-si	TN	CMOS	n/a	500	500:1	n/a	105.5 x 67.2 x 2.9	24-bit
5.0"	800 x 480	16:9	TX13D204VM0BAA	A-si	IPS	LVDS	n/a	1300	1300:1	n/a	121 x 80 x 7.1	24-bit
5.0"	800 x 480	16:9	TX13D205VM0BAA	A-si	IPS	CMOS	n/a	1300	1300:1	n/a	121 x 80 x 7.1	24-bit
7.0"	800 x 480	16:9	TX18D44VM2BAA	A-si	TN	CMOS	On request	400	600:1	n/a	165 x 106 x 8	Slim mechanical design
7.0"	800 x 480	16:9	TX18D45VM2BAA	A-si	TN	LVDS	On request	400	600:1	n/a	165 x 106 x 8	Slim mechanical design
7.0"	800 x 480	16:9	TX18D46VM2BAA	A-si	TN	LVDS	R-T/P	400	600:1	n/a	165 x 106 x 8	Slim mechanical design
7.0"	800 x 480	16:9	TX18D205VM0BAA	LTIPS	IPS	CMOS	R-T/P	800	1000:1	Built-in	167.7 x 109.5 x 9.0	Rugged+
7.0"	800 x 480	16:9	TX18D206VM0BAA	LTIPS	IPS	LVDS	R-T/P	800	1000:1	Built-in	167.7 x 109.5 x 9.0	Rugged+
7.0"	800 x 480	16:9	TX18D210VM0BAA	LTIPS	IPS	CMOS	R-T/P, Pcap T/P	1200	1000:1	Built-in	167.7 x 109.5 x 9.0	Rugged+
7.0"	800 x 480	16:9	TX18D211VM0BAA	LTIPS	IPS	LVDS	R-T/P, Pcap T/P	1200	1000:1	Built-in	167.7 x 109.5 x 9.0	Rugged+
<b>NEW!</b> 7.0"	1280 x 768	16:9	TX18D212VM0BAA	LTIPS	IPS	LVDS	Pcap T/P	1500	1000:1	Built-in	164.4 x 105 x 13.5	Rugged+, HD
7.0"	800 x 480	16:9	TX18D216VM0BAA	LTIPS	IPS	LVDS	On request	1200	1000:1	Built-in	167.7 x 109.5 x 9.0	24-bit, Rugged+
7.0"	800 x 480	16:9	TX18D216VM0BAC	LTIPS	IPS	LVDS	On request	1200	1000:1	n/a	167.7 x 109.5 x 9.0	24-bit, Rugged+
<b>NEW!</b> 7.0"	1920 x 1080	16:9	TX18D200VM0EAA	LTIPS	IPS	LVDS	Pcap T/P	1200	1000:1	Built-in	169 x 104 x 10	Full HD, Rugged+
7.0"	1920 x 1080	16:9	TX18D204VM0BAA	LTIPS	IPS	LVDS	Pcap T/P	600	800:1	Built-in	169 x 103 x 4	Full HD, slim mechanical design
8.0"	800 x 480	16:9	TX20D33VM2BAA	A-si	TN	CMOS	R-T/P	400	600:1	n/a	189 x 120 x 7.5	Slim mechanical design
8.0"	800 x 480	16:9	TX20D200VM5BAA	A-si	TN	LVDS	R-T/P	1000	400:1	Built-in	189 x 122 x 10.2	IPS-like
8.0"	800 x 480	16:9	TX20D200VM2BAB	A-si	TN	LVDS	R-T/P	1500	800:1	Built-in	189 x 122 x 10.2	Ultra High Brightness
8.0"	800 x 480	16:9	TX20D208VM0BAA	LTIPS	IPS	LVDS	n/a	1000	1000:1	Built-in	190.8 x 120.5 x 15.7	Rugged+
8.0"	1280 x 768	16:9	TX20D207VM0AAA	LTIPS	IPS	LVDS	Pcap T/P	1200	1400:1	Built-in	189.5 x 119.4 x 11.6	Rugged+
9.0"	800 x 480	16:9	TX23D202VM0BAA	A-si	IPS	LVDS	R-T/P	500	1000:1	Built-in	218 x 135 x 11.15	Rugged+
9.0"	800 x 480	16:9	TX23D203VM0BAA	A-si	IPS	LVDS	R-T/P	1000	1000:1	Built-in	218 x 135 x 11.15	Rugged+
10.1"	1920 x 1200	16:10	TX26D202VM0BAA	A-si	IPS	LVDS	Pcap T/P	800	800:1	Built-in	232.1 x 153.2 x 4.7	WUXGA
10.1"	1280 x 800	16:10	TX26D207VM0AAA	A-si	IPS	LVDS	Pcap T/P	1000	1500:1	Built-in	231 x 153.5 x 11.07	Rugged+
10.2"	1920 x 1080	16:9	TX26D208VM0AAA	LTIPS	IPS	LVDS	n/a	1300	1000:1	Built-in	241.9 x 147.8 x 12.6	Rugged+, FHD
10.6"	1280 x 768	16:9	TX27D200VM0AAA	LTIPS	IPS	LVDS	Pcap T/P	1000	1000:1	n/a	250 x 157 x 8.9	Rugged+, 100Khrs LED lifetime
10.6"	1280 x 768	16:9	TX27D201VM0AAA	LTIPS	IPS	LVDS	Pcap T/P	1000	1000:1	n/a	250 x 157 x 8.9	Rugged+, 100Khrs LED lifetime
10.6"	1280 x 768	16:9	TX27D201VM0AAB	LTIPS	IPS	LVDS	Pcap T/P	1000	1000:1	Built-in	250 x 157 x 8.9	Rugged+, 100Khrs LED lifetime
<b>NEW!</b> 11.6"	1920 x 1080	16:9	TX29D200VM0AAA	LTIPS	IPS	LVDS	n/a	1200	1300:1	Built-in	275 x 163.8 x 12.1	Rugged+, 100Khrs LED lifetime
12.1	1280 x 800	16:10	TX31D208VM0BAA	A-si	IPS	LVDS	Pcap T/P	1500	1000:1	Built-in	283 x 185.1 x 9.7	100Khrs LED lifetime, Ultra High Brightness
12.1	1280 x 800	16:10	TX31D208VM0BAB	A-si	IPS	LVDS	Pcap T/P	1500	1000:1	n/a	283 x 185.1 x 9.7	100Khrs LED lifetime, Ultra High Brightness
<b>NEW!</b> 15.6"	1920 x 1080	16:9	TX40D202VM0BAA	A-si	IPS	LVDS	n/a	1500	1200:1	Built-in	367.86 x 219.51 x 14.71	FHD, 80% high color gamut
<b>NEW!</b> 15.6"	1920 x 1080	16:9	TX40D202VM0BAB	A-si	IPS	LVDS	n/a	1500	1200:1	n/a	367.86 x 219.51 x 14.71	FHD, 80% high color gamut

## Ultra Wide Format Displays

Size	Resolution	Aspect ratio	Part Number	LCD Technology	LCD interface	Touchscreen Version	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Dimensions	Features highlight	
6.2"	640 x 240	8:3	TX16D20VM5BAA	A-si	TN	CMOS	R-T/P	400	400:1	n/a	173 x 70 x 7	IPS-Like
6.2"	640 x 240	8:3	TX16D21VM5BAA	A-si	TN	LVDS	R-T/P	400	400:1	n/a	173 x 70 x 7	IPS-Like
10.3"	1920 x 720	8:3	TX26D206VM0BAA	LTIPS	IPS	LVDS	n/a	1200	1000:1	Built-in	259 x 111.4 x 14.2	Rugged+, HD
12.3"	1280 x 480	8:3	TX31D200VM0BAA	A-si	IPS	LVDS	Pcap T/P	1000	1000:1	Built-in	320 x 130 x 12.1	Rugged+
<b>NEW!</b> 12.3"	1920 x 720	8:3	TX31D203VM0EAC	LTIPS	IPS	LVDS	n/a	1000	1300:1	Built-in	308.5 x 130.2 x 12.3	Rugged+, HD
15"	1920 x 720	8:3	TX38D203VM0AAA	LTIPS	IPS	LVDS	n/a	1000	1000:1	n/a	374.5 x 154.5 x 18.15	Rugged+, 100Khrs LED lifetime
15.8"	2560 x 600	-	TX40D200VM0BAA	A-si	IPS	Display port	n/a	400	1300:1	Built-in	409.8 x 109.5 x 14.5	Display port I/F
15.8"	2560 x 600	-	TX40D201VM0BAB	A-si	IPS	LVDS	n/a	1000	1300:1	n/a	409.8 x 109.5 x 14.5	IPS, High Brightness



### Standard Format (4:3) Displays

Size	Resolution	Part Number	LCD Technology	LCD interface	Touchscreen Version	Brightness cd/m <sup>2</sup>	Contrast	LED driver	Dimensions	Features highlight	
3.5"	240 x 320	TX09D40VM3CBA	A-Si	TN	CMOS	R-T/P	430	300:1	n/a	64 x 86 x 3.12	Timing Controller built in
3.5"	240 x 320	TX09D30VM1CDA	A-Si	TN	CMOS	R-T/P	320	300:1	Built-in	64 x 86 x 6.7	Timing Controller built in, On board voltage generation
5.0"	640 x 480	TX13D200VM5BAA	A-Si	TN	CMOS	R-T/P	600	370:1	Built-in	119.4 x 89.1 x 9.3	IPS-like
5.0"	640 x 480	TX13D202VM5BAA	A-Si	TN	LVDS	R-T/P	600	370:1	Built-in	119.4 x 89.1 x 9.3	IPS-like
5.7"	320 x 240	TX14D24VM1BAA	A-Si	TN	CMOS	R-T/P	450	600:1	n/a	167 x 109 x 9.2	SP14Q/SX14Q compatible
5.7"	320 x 240	TX14D25VM1BAA	A-Si	TN	CMOS	R-T/P	400	600:1	n/a	131 x 102.2 x 10.9	Compact mechanical outline
5.7"	320 x 240	TX14D26VM1BAA	A-Si	TN	CMOS	R-T/P	800	800:1	n/a	131 x 102 x 7.1	Slim mechanical design
5.7"	640 x 480	TX14D203VM0BAA	A-Si	IPS	CMOS	R-T/P	1000	1000:1	n/a	131 x 102.2 x 7.6	High Brightness
5.7"	640 x 480	TX14D204VM0BAA	A-Si	IPS	LVDS	R-T/P	1000	1000:1	n/a	131 x 102.2 x 7.6	High Brightness
<b>(NEW)</b> 6.4"	1024 x 768	TX16D209VM0BAB	LTPS	IPS	LVDS	n/a	1400	1500:1	Built-in	153 x 118 x 8.7	Higher Definition
6.5"	640 x 480	TX17D01VM2CAA	A-Si	TN	CMOS	R-T/P	600	600:1	Built-in	153 x 118 x 9.1	Compact mechanical outline
6.5"	640 x 480	TX17D01VM2EAB	A-Si	TN	CMOS	R-T/P	1000	600:1	Built-in	153 x 118 x 9.1	AR polariser
6.5"	640 x 480	TX17D01VM5BAA	A-Si	TN	CMOS	R-T/P	800	350:1	Built-in	153 x 118 x 9.1	IPS-like
10.4"	800 x 600	TX26D200VM5BAA	A-Si	TN	LVDS	R-T/P	1000	400:1	Built-in	243 x 185.1 x 10.1	IPS-like
10.4"	800 x 600	TX26D200VM2BAB	A-Si	TN	LVDS	R-T/P & Pcap T/P	1500	800:1	Built-in	230 x 180.2 x 10.1	Ultra High Brightness
10.4"	1024 x 768	TX26D211VM0BAA	A-Si	IPS	LVDS	On request	1300	1000:1	Built-in	230 x 180.2 x 9.5	100Khrs LED lifetime, 24-bit
12.1"	1024 x 768	TX31D207VM0BAB	A-Si	IPS	LVDS	On request	1000	1000:1	Built-in	260.5 x 203.0 x 9.5	100Khrs LED lifetime, 24-bit

### Product features

Screen size	Product type	Resolution	LTFS	IPS	IPS Like	TN TFT	FHD	Rugged Plus	Higher Definition	Standard format (4:3)	Wide format	LED Driver built-in	Outdoor readable	CMOS interface	LVDS interface	6-bit	8-bit	Operating Temp. (-40~85°C)	Resistive Touchpanel option	Capacitive Touchpanel option
3.5"	TX09D30	320 x 240				•				•				•					•	
	TX09D40	320 x 240				•				•				•					•	
4.2"	TX11D201	480 x 272		•				•						•					•	
4.3"	TX11D06	480 x 272				•								•					•	
5.0"	TX13D200	640 x 480			•	•				•				•					•	
	TX13D202	640 x 480			•	•				•				•					•	
	TX13D204	800 x 480		•						•			•	•					•	
	TX13D205	800 x 480		•						•			•	•					•	
5.7"	TX14D24	320 x 240				•				•				•					•	
	TX14D25	320 x 240				•				•				•					•	
	TX14D26	320 x 240				•				•				•					•	
	TX14D203	640 x 480		•						•			•	•					•	
6.2"	TX16D20	640 x 240				•								•					•	
	TX16D21	640 x 240				•								•					•	
6.4"	TX16D209	1024 x 768	•	•				•	•				•	•				•		
6.5"	TX17D01	640 x 480			•	•				•				•					•	
	TX17D02	640 x 480				•				•				•					•	
7.0"	TX18D205	800 x 480	•	•				•						•					•	•
	TX18D206	800 x 480	•	•				•						•					•	•
	TX18D210	800 x 480	•	•				•						•					•	•
	TX18D211	800 x 480	•	•				•						•					•	•
	TX18D216	800 x 480	•	•				•						•					•	•
	TX18D44	800 x 480				•								•					•	•
8.0"	TX18D46	800 x 480				•								•					•	•
	TX18D212	1280 x 768						•	•					•					•	•
	TX18D200	1920 x 1080				•		•	•					•					•	•
	TX18D204	1920 x 1080				•		•	•					•					•	•
8.0"	TX20D200	800 x 480				•								•					•	•
	TX20D200	800 x 480			•	•								•					•	•
	TX20D208	800 x 480	•	•				•						•					•	•
	TX20D33	800 x 480				•								•					•	•
9.0"	TX20D207	1280 x 768	•	•				•	•					•					•	•
	TX23D202	800 x 480		•				•						•					•	•
10.1"	TX23D203	800 x 480		•				•						•					•	•
	TX26D207	1280 x 800		•				•	•					•					•	•
10.2"	TX26D202	1920 x 1200		•				•	•					•					•	•
	TX26D208	1920 x 1080		•				•	•					•					•	•
10.3"	TX26D206	1920 x 720	•	•				•	•					•					•	•
10.4"	TX26D200	800 x 600				•				•				•					•	•
	TX26D200	800 x 600			•	•				•				•					•	•
	TX26D211	1024 x 768		•						•				•					•	•
10.6"	TX27D200	1280 x 768	•	•				•						•					•	•
	TX27D201	1280 x 768	•	•				•						•					•	•
11.6"	TX29D200	1920 x 1080	•	•				•	•					•					•	•
12.1"	TX31D207	1024 x 768		•						•				•					•	•
	TX31D208	1280 x 800		•										•					•	•
12.3"	TX31D200	1280 x 480		•					•					•					•	•
	TX31D203	1920 x 720	•	•					•	•				•					•	•
15"	TX38D203	1920 x 720	•	•					•					•					•	•
15.6"	TX40D202	1920 x 1080		•				•	•					•					•	•
15.8"	TX40D200	2560 x 600		•					•					•					•	•
	TX40D201	2560 x 600		•					•					•					•	•

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