

# Industrial Wide Viewing Angle TFT-Displays

- 4.3" to 27"
- Standard and High Brightness
- Optical Bonding Service
- Embedded



# 4.3 and 5" TFT-Displays



DATA DISPLAY GROUP

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Panel	<a href="#">AC043NA11</a>	<a href="#">AA050MC01</a>	<a href="#">AA050MG03</a>	<a href="#">AA050MH01</a>
<b>Manufacturer</b>	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
<b>Type / size</b>	IPS / <b>4.3"</b>	IPS / <b>5"</b>	IPS / <b>5"</b>	IPS / <b>5"</b>
<b>Viewing angle (v/h)</b>	<b>170°/170°</b>	170°/170°	170°/170°	170°/170°
<b>Resolution</b>	480x272	WVGA 800x480	WVGA 800x480	WVGA 800x480
<b>Input</b>	TTL	TTL	TTL	TTL
<b>BLU/Converter integrated</b>	LED/NO	LED/NO	LED/NO	LED/NO
<b>Brightness (cd/m²)</b>	<b>1000</b>	300	900	500
<b>Temperature operating (°C)</b>	-30...+80	-20...+60	-30...+80	-30...+80
	<i>Reverse Scan</i>	<i>Reverse Pin</i>	<i>Reverse Pin</i>	<i>Reverse Pin</i>
		<b>Touch Screen</b>		
<b>Analog Resistive Touch Sensor</b>		integrated in version AA050MC01--T1	integrated in version AA050MG03--T1	
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
		<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>		
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
		<b>Industrial TFT-Controller</b>		
	Via Interface IF39x	Via Interface IF39x	Via Interface IF392M	Via Interface IF392M
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓
<b>Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓

All combinations are possible.  
For more information contact our [Sales](#).

## Wide Viewing Angle TFT Overview

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# 7" TFT-Displays



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Panel	<a href="#">LB070WV8-SL02</a>	<a href="#">AA070MC01</a>	<a href="#">AA070MC11</a>	<a href="#">AT070MP11</a>
<b>Manufacturer</b>	LG	Mitsubishi	Mitsubishi	Mitsubishi
<b>Type</b>	IPS	IPS	IPS	IPS
<b>Viewing angle (v/h)</b>	178°/178°	170°/170°	170°/170°	170°/170°
<b>Resolution</b>	WVGA 800x480	WVGA 800x480	WVGA 800x480	WVGA 800x480
<b>Input</b>	LVDS	LVDS	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/NO*	LED/NO*
<b>Brightness (cd/m²)</b>	450	<b>1000</b>	<b>1300</b>	<b>1100</b>
<b>Temperature operating (°C)</b>	-30...+80	-30...+80	-30...+80	<b>-40...+85</b>
		<i>Reverse Pin</i>	<i>Reverse Pin</i>	<i>Reverse Pin</i>
			<i>*SmartLED Converter available</i>	
	<b>Resistive Touch</b>			
<b>4-wire</b>	✓	✓	✓	✓
<b>4-wire glass/glass</b>	✓	✓	✓	✓
<b>4-wire glass/glass with polarizer</b>		✓	✓	✓
	<b>PCAP Touch</b>			
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
	<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>			
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
	<b>Industrial TFT-Controller</b>			
<b><a href="#">Serial stand alone GUI TFT-Controller</a></b>	✓	✓	✓	✓
<b><a href="#">USB-Client to LVDS TFT-Controller</a></b>	✓	✓	✓	✓
<b><a href="#">RGB/DVI to LVDS TFT-Controller</a></b>	✓	✓	✓	✓
<b>Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 7" TFT-Displays



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<b>Panel</b>	<a href="#">TCG070WVLOGPNN-AN-40</a>	<a href="#">AM-1280800P2TZQW-00H</a> <a href="#">AM-1280800P3TZQW-10H</a> <a href="#">AM-1280800P3TZQW-00H</a>
<b>Manufacturer</b>	Kyocera	AMPIRE
<b>Type</b>	AWV*	SFT*
<b>Viewing angle (v/h)</b>	170°/170°	160°/160°
<b>Resolution</b>	WVGA 800x480	<b>WXGA 1280x800 / 7"</b>
<b>Input</b>	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES
<b>Brightness (cd/m<sup>2</sup>)</b>	<b>1000</b>	<b>500/1000/1500</b>
<b>Temperature operating (°C)</b>	-30...+80	-20...+70
	* <i>Advanced Wide View</i>	* <i>SuperFineTFT</i>
	<b>Resistive Touch</b>	
<b>4-wire</b>	✓	✓
<b>4-wire glass/glass</b>	✓	✓
<b>4-wire glass/glass with polarizer</b>		
	<b>PCAP Touch</b>	
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>	
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Options: HDMI, DP, Video, Audio</b>	✓	✓

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## Wide Viewing Angle TFT Overview

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# 7" TFT-Displays

With integrated PCAP Touch

Panel	<a href="#">TCG070WVLRxPCx-GDx118</a>	<a href="#">TCG070WVLRxPCx-GDx117</a>
<b>Manufacturer</b>	Kyocera	Kyocera
<b>Type</b>	AWV*	AWV*
<b>Viewing angle (v/h)</b>	170°/170°	170°/170°
<b>Resolution</b>	WVGA 800x480	WVGA 800x480
<b>Input</b>	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	500	500
<b>Temperature operating (°C)</b>	-20...+70	-20...+70
<b>Integrated Touchscreen</b>	Projected capacitive USB <i>* Advanced Wide View</i>	Projected capacitive I²C <i>* Advanced Wide View</i>
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Options: HDMI, DP, Video, Audio</b>	✓	✓

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# 8.4" TFT-Displays



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Panel	<a href="#">AA084SC01</a>	<a href="#">TCG084SVLQxPNN-ANx32</a>	<a href="#">TCG084SVLQxPNN-ANx33</a>	<a href="#">AA084XD01</a>
<b>Manufacturer</b>	Mitsubishi	Kyocera	Kyocera	Mitsubishi
<b>Type</b>	IPS	AWV*	AWV*	IPS
<b>Viewing angle (v/h)</b>	170°/170°	170°/170°	170°/170°	170°/170°
<b>Resolution</b>	<b>SVGA</b> 800x600	<b>SVGA</b> 800x600	<b>SVGA</b> 800x600	<b>XGA</b> 1024x768
<b>Input</b>	LVDS	LVDS	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	600	600	<b>1200</b>	600
<b>Temperature operating (°C)</b>	-30...+80	-30...+80	-30...+80	-30...+80
	<i>Reverse Pin</i>	<i>* Advanced Wide View</i>	<i>* Advanced Wide View</i>	<i>Reverse Pin</i>
<b>Touch Screen</b>				
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
<b>Industrial TFT-Controller</b>				
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 9 and 10" TFT-Displays



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<b>Panel</b>	<a href="#">AA090TB01</a>	<a href="#">VVX10F087J00</a>
<b>Manufacturer</b>	Mitsubishi	Panasonic
<b>Type / size</b>	IPS / <b>9"</b>	IPS / <b>10"</b>
<b>Viewing angle (v/h)</b>	170°/170°	178°/178°
<b>Resolution</b>	<b>WXGA</b> 1280x768	<b>FHD</b> 1920x1080
<b>Input</b>	LVDS	eDP*
<b>BLU/Converter integrated</b>	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	800	300
<b>Temperature operating (°C)</b>	-30...+80	-20...+70
		* <a href="#">LVDS2eDP interface</a> available
	<b>Touch Screen</b>	
<b>Analog Resistive Touch Sensor</b>	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>		
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓

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## Wide Viewing Angle TFT Overview

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# 10.1" TFT-Displays

High Brightness

Panel	<a href="#">AL101WXL02-N</a>	<a href="#">TM101JDHG32-00</a>	<a href="#">AM-19201200B1TZQW-00</a>	<a href="#">AM-19201200B1TZQW-T51</a>
Manufacturer	AMOLED	Tianma	Ampire	Ampire
Type	IPS	SFT	MVA	MVA
Viewing angle (v/h)	<b>170°/170°</b>	170°/170°	170°/170°	170°/170°
Resolution	<b>WXGA</b> 1280x800	<b>WXGA</b> 1280x800	<b>WUXGA</b> 1920x1200	<b>WUXGA</b> 1920x1200
Input	LVDS	LVDS	LVDS	LVDS
BLU/Converter integrated	LED/NO	LED/YES	LED/YES	LED/YES
Brightness (cd/m <sup>2</sup> )	<b>1300</b>	<b>1000</b>	<b>1000</b>	<b>850</b>
Temperature operating (°C)	-20...+70	-20...+70	-20...+70	-20...+70
	<i>*SmartLED Converter available</i>			
	<b>Resistive Touch</b>			
4-wire	✓	✓	✓	
4-wire glass/glass	✓	✓	✓	
	<b>PCAP Touch</b>			
Projected Capacitive Touch Sensor	✓	Version: integrated	✓	integrated
	<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>			
Projected Capacitive Touch Sensor	✓	✓	✓	
	<b>Industrial TFT-Controller</b>			
<a href="#">Serial stand alone GUI TFT-Controller</a>				
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓
Options: HDMI, DP, Video, Audio	✓	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 10.4" TFT-Displays



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Panel	<a href="#">G104V1-T03</a>	<a href="#">G104X1-L03</a>	<a href="#">G104X1-L04</a>	<a href="#">G104XVN01.0</a>	<a href="#">TCG104XGLPAPNN-AN30</a>
<b>Manufacturer</b>	Innolux	Innolux	Innolux	AUO	Kyocera
<b>Type</b>	S-MVA	S-MVA	S-MVA	PSA	AWV*
<b>Viewing angle (v/h)</b>	176°/176°	176°/176°	176°/176°	178°/178°	170°/170°
<b>Resolution</b>	<b>VGA</b> 640x480	<b>XGA</b> 1024x768	<b>XGA</b> 1024x768	<b>XGA</b> 1024x768	<b>XGA</b> 1024x768
<b>Input</b>	TTL	LVDS	LVDS	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	450	350	500	470	600
<b>Temperature operating (°C)</b>	-30...+80	-30...+70	-30...+70	-30...+80	-30...+80
	<i>Reverse Pin</i>	<i>Reverse Pin</i>	<i>Reverse Pin</i>	<i>Reverse Pin</i>	* <i>Advanced Wide View</i>
	<b>Touch Screen</b>				
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓	✓
	<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>				
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓		✓
	<b>Industrial TFT-Controller</b>				
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓	✓	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 10.4" TFT-Displays

High Brightness

<b>Panel</b>	<a href="#">TCG104XGLPAPNN-AN40</a>	<a href="#">AA104XG12</a>
<b>Manufacturer</b>	Kyocera	Mitsubishi
<b>Type</b>	AWV*	IPS
<b>Viewing angle (v/h)</b>	170°/170°	170°/170°
<b>Resolution</b>	<b>XGA</b> 1024x768	<b>XGA</b> 1024x768
<b>Input</b>	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/NO
<b>Brightness (cd/m²)</b>	<b>1300</b>	<b>900</b>
<b>Temperature operating (°C)</b>	-30...+80	-30...+80
	<i>* Advanced Wide View</i>	<i>Reverse Pin</i>
	<b>Touch Screen</b>	
<b>Analog Resistive Touch Sensor</b>	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Finished design: PCAP Touch - Cover Glass Black Printed</b>	
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓

All combinations are possible.  
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## Wide Viewing Angle TFT Overview

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# 11.6 and 12.1" TFT-Displays



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Panel	<a href="#">VVX12F045J00</a>	<a href="#">G121S1-L02</a>	<a href="#">TCG121XGLPAPNN-AN20</a>	<a href="#">AA121XP01</a>
<b>Manufacturer</b>	Panasonic	Innolux	Kyocera	Mitsubishi
<b>Type / size</b>	IPS / <b>11.6"</b>	S-MVA / <b>12.1"</b>	AWV / <b>12.1"</b>	IPS / <b>12.1"</b>
<b>Viewing angle (v/h)</b>	170°/170°	178°/178°	170°/170°	170°/170°
<b>Resolution</b>	<b>FHD</b> 1920x1080	<b>SVGA</b> 800x600	<b>XGA</b> 1024x768	<b>XGA</b> 1024x768
<b>Input</b>	eDP*	LVDS	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	280	600	400	500
<b>Temperature operating (°C)</b>	0...+50	-30...+80	-30...+80	-30...+80
	<small>* LVDS2eDP interface available</small>			
	<b>Touch Screen</b>			
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
	<b>Industrial TFT-Controller</b>			
<a href="#">Serial stand alone GUI TFT-Controller</a>		✓	✓	✓
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓

All combinations are possible.  
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## Wide Viewing Angle TFT Overview

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# 12.1" TFT-Displays



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<b>Panel</b>	<a href="#">TCG121WXLPxPNN-ANx05</a>	<a href="#">G121I1-L01</a>	<a href="#">G121EAN01.0</a>
<b>Manufacturer</b>	Kyocera	Innolux	AUO
<b>Type / size</b>	AWV	S-MVA / <b>12.1"</b>	A-MVA / <b>12.1"</b>
<b>Viewing angle (v/h)</b>	170°/170°	176°/176°	178°/178°
<b>Resolution</b>	<b>WXGA</b> 1280x800	<b>WXGA</b> 1280x800	<b>WXGA</b> 1280x800
<b>Input</b>	LVDS	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	500	400	500
<b>Temperature operating (°C)</b>	-30...+80	-10...+70	-30...+85
	<b>Touch Screen</b>		
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓
	<b>Industrial TFT-Controller</b>		
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓		
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 12.1" TFT-Displays

High Brightness

<b>Panel</b>	<a href="#">TCG121XGLPBPNN-AN40</a>	<a href="#">GKVGC1MNDK2A0</a>
<b>Manufacturer</b>	Kyocera	SGD
<b>Type</b>	AWV*	MVA
<b>Viewing angle (v/h)</b>	170°/170°	176°/176°
<b>Resolution</b>	<b>XGA</b> 1024x768	<b>WXGA</b> 1280x800
<b>Input</b>	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/NO
<b>Brightness (cd/m²)</b>	<b>1200</b>	<b>1300</b>
<b>Temperature operating (°C)</b>	-30...+80	-30...+80
	<b>Touch Screen</b>	
<b>Analog Resistive Touch Sensor</b>	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓

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# 12.5 to 14" TFT-Displays



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Panel	<a href="#">LP125WF-SPB2</a>	<a href="#">G133HAN01.0</a>	<a href="#">B140HAN01.1</a>
<b>Manufacturer</b>	LG	AUO	AUO
<b>Type / size</b>	IPS / <b>12.5"</b>	AHVA / <b>13.3"</b>	MVA / <b>14"</b>
<b>Viewing angle (v/h)</b>	Min. 160°/160°	Min. 178°/178°	178°/178°
<b>Resolution</b>	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080
<b>Input</b>	eDP*	LVDS	eDP*
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	400	400	300
<b>Temperature operating (°C)</b>	0...+50	0...+70	0...+50
	<i>* LVDS2eDP interface available</i>		<i>* LVDS2eDP interface available</i>
	<b>Touch Screen</b>		
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓
	<b>Industrial TFT-Controller</b>		
<a href="#">Serial stand alone GUI TFT-Controller</a>			
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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# 15" TFT-Displays

High Brightness

Panel	<a href="#">AA150XW14*</a>	<a href="#">AA150PD13</a>
Manufacturer	Mitsubishi	Mitsubishi
Type	IPS	IPS
Viewing angle (v/h)	170°/170°	170°/170°
Resolution	XGA 1024x768	<b>SXGA+</b> 1400x1050
Input	LVDS	LVDS
BLU/Converter integrated	LED/NO*	LED/NO*
Brightness (cd/m <sup>2</sup> )	<b>1000</b>	<b>1000</b>
Temperature operating (°C)	-30...+80	-30...+85
	<i>* successor of AA150XW11 Reverse Pin</i>	<i>Reverse Pin</i>
	<i>*SmartLED Converter available</i>	
	<b>Touch Screen</b>	
Analog Resistive Touch Sensor	✓	✓
Projected Capacitive Touch Sensor	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>	✓	
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
Ask for Options: HDMI, DP, Video, Audio	✓	✓

All combinations are possible.  
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## Wide Viewing Angle TFT Overview

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# 15.6" TFT-Displays

with LVDS interface

<b>Panel</b>	<a href="#">NL192108AC18-02D</a>	<a href="#">LQ156M3LW01</a>
<b>Manufacturer</b>	NLT	Sharp
<b>Type</b>	SFT	IPS
<b>Viewing angle (v/h)</b>	176°/176°	170°/170°
<b>Resolution</b>	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080
<b>Input</b>	LVDS	LVDS
<b>BLU/Converter integrated</b>	LED/YES	LED/YES
<b>Brightness (cd/m<sup>2</sup>)</b>	400	400
<b>Temperature operating (°C)</b>	-20...+70	-20...+75
	<b>Touch Screen</b>	
<b>Analog Resistive Touch Sensor</b>	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓
	<b>Industrial TFT-Controller</b>	
<a href="#">Serial stand alone GUI TFT-Controller</a>		
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓

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# 15.6" TFT-Displays

with eDP interface

Panel	<a href="#">LP156WF6-SPB1</a>	<a href="#">G156HAN01.0</a>	<a href="#">NL192108AC18-01D</a>	<a href="#">NL192108BC18-06F</a>
<b>Manufacturer</b>	LG	AUO	NLT	NLT
<b>Type</b>	IPS	IPS	SFT	SFT
<b>Viewing angle (v/h)</b>	min. 160°/160°	170°/170°	176°/176°	176°/176°
<b>Resolution</b>	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080	<b>FHD</b> 1920x1080
<b>Input</b>	eDP*	eDP*	eDP*	eDP*
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES	LED/NO*
<b>Brightness (cd/m²)</b>	300	400	400	1500
<b>Temperature operating (°C)</b>	0...+50	0...+50	-20...+70	-30...+85
	<i>*LVDS2eDP interface available</i>			<i>*SmartLED Converter available</i>
	<b>Touch Screen</b>			
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓
	<b>Industrial TFT-Controller</b>			
<a href="#">Serial stand alone GUI TFT-Controller</a>				
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓

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# 17 to 18.5" TFT-Displays



DATA DISPLAY GROUP

A FORTEC GROUP MEMBER

Panel	<a href="#">G170J1-LE1</a>	<a href="#">LB170E01-SL01</a>	<a href="#">LP173WF4-SPF5</a>	<a href="#">G185HAN01.0</a>	<a href="#">NL192108AC21-01</a>
<b>Manufacturer</b>	Innolux	LG	LG	AUO	NLT
<b>Type / Size</b>	S-MVA / <b>17"</b>	IPS / <b>17"</b>	IPS / <b>17,3"</b>	PMVA / <b>18.5"</b>	SFT / <b>18.5"</b>
<b>Viewing angle (v/h)</b>	176/176°	178°/178°	min. 160°/160°	178°/178°	176°/176°
<b>Resolution</b>	WUXGA 1920x1200	SXGA 1280x1024	FHD 1920x1080	FHD 1920x1080	FHD 1920x1080
<b>Input</b>	LVDS	LVDS	eDP*	LVDS	eDP*
<b>BLU/Converter integrated</b>	LED/YES	LED/YES	LED/YES	LED/YES	LED/YES
<b>Brightness (cd/m²)</b>	600	400	300	350	400
<b>Temperature operating (°C)</b>	-20...+80	-10...+70	-0...+50	-20...+75	-20...+70
<b>Special Features</b>			Very thin (4.0mm) <i>* LVDS2eDP interface available</i>		<i>* LVDS2eDP interface available</i>
	<b>Touch Screen</b>				
<b>Analog Resistive Touch Sensor</b>	✓	✓	✓	✓	✓
<b>Projected Capacitive Touch Sensor</b>	✓	✓	✓	✓	✓
	<b>Industrial TFT-Controller</b>				
<a href="#">Serial stand alone GUI TFT-Controller</a>					
<a href="#">USB-Client to LVDS TFT-Controller</a>	✓	✓	✓	✓	✓
<a href="#">RGB/DVI to LVDS TFT-Controller</a>	✓	✓	✓	✓	✓
<b>Ask for Options: HDMI, DP, Video, Audio</b>	✓	✓	✓	✓	✓

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## Wide Viewing Angle TFT Overview

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## Cover Glass

### Professional Bonding **VACUBOND**<sup>®</sup>

Schott Xensation™ (Thin & High Hardness)

Toughened Safety Glass

Ceramic or Organic Silkscreen

### Economy Bonding **VACUBOND**<sup>®</sup>

Economy Safety Glass

## Touch Screen

Projected Capacitive Touch

Resistive Touch Glass/Glass

Resistive Touch Film/Glass

Analog Matrix Resistive MultiTouch

Visit our website: [Innovative Optical Binding Technology: Vacuum Bonding](#)

## Wide Viewing Angle TFT Overview

your specialist for flat screen solutions

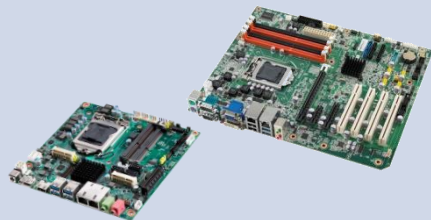


## Embedded Boards



2,5" Pico-ITX™  
3,5" Single Board Computer  
PC/104  
Slot SBC

## Industrial Mainboards



Mini-ITX™  
Micro-ATX  
Flex-ATX  
ATX

## Embedded Systems



Embedded Box PCs  
Embedded Panel PCs  
Embedded Server  
Embedded Desktop PCs  
Digital Signage Player  
Industrial Monitors

## Accessories & IoT



Gateways  
Switches  
Router  
Memory, CPUs  
Cables  
Power Supplies

### Available Features & Options:

Designed for Industrial Applications  
Extended Temperature -40°C...+85°C  
Design-in Support  
Kits (Board with OS, Display & Cables)

Long-term Availability  
Custom Design  
Fixed Bill of Material  
EOL / PCN Handling

## Wide Viewing Angle TFT Overview

your specialist for flat screen solutions



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