

# Industrial Wide Viewing Angle TFT-Displays

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



# 4.3 and 5" TFT-Displays



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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<br>AA050MC01--T1                         | integrated in version<br>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.  
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## 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><br><a href="#">AM-1280800P3TZQW-10H</a><br><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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# 7" TFT-Displays

With integrated PCAP Touch

|   |                                       |                                       |
|---|---------------------------------------|---------------------------------------|
| <b>Panel</b>  | <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              | Projected capacitive I²C              |
|   | <i>* Advanced Wide View</i>           | <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



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| Panel   | <a href="#">G101EVN01.0</a> | <a href="#">G101EVN01.3</a> | <a href="#">TM101JDHG30-00</a> | <a href="#">NL12880AC16-01D</a> |
|---|-----------------------------|-----------------------------|--------------------------------|---------------------------------|
| <b>Manufacturer</b>                                   | AUO                         | AUO                         | Tianma                         | NLT                             |
| <b>Type</b>   | MVA                         | MVA                         | SFT                            | SFT                             |
| <b>Viewing angle (v/h)</b>                            | 170°/170°                   | 170°/170°                   | 170°/170°                      | 176°/176°                       |
| <b>Resolution</b>                                     | <b>WXGA</b> 1280x800        | <b>WXGA</b> 1280x800        | <b>WXGA</b> 1280x800           | <b>WXGA</b> 1280x800            |
| <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>                             | 300                         | 500                         | 500                            | 400                             |
| <b>Temperature operating (°C)</b>                     | -20...+60                   | -20...+70                   | -20...+70                      | -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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## 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>        | ✓  | ✓                         |

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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

your specialist for flat screen solutions

# 12.1" TFT-Displays



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| Panel   | <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>        | ✓                                   | ✓                             |

All combinations are possible.  
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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<br/>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               | ✓   | ✓                         |

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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/m²)</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>        | ✓                                | ✓                           |

All combinations are possible.  
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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



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| 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)<br><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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# 21.5 and 23" TFT-Displays



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| Panel   | <a href="#">LM215WF3-SLC1</a> | <a href="#">LM215WF3-SLK1</a> | <a href="#">G215HVN01.0</a> | <a href="#">LM230WF3-SLD1</a> | <a href="#">G238HAN01.0</a> |
|---|-------------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|
| <b>Manufacturer</b>                                   | LG                            | LG                            | AUO                         | LG                            | AUO                         |
| <b>Type / size</b>                                    | IPS / <b>21.5"</b>            | IPS / <b>21.5"</b>            | PMVA / <b>21.5"</b>         | IPS / <b>23"</b>              | AHVA / <b>23"</b>           |
| <b>Viewing angle (v/h)</b>                            | 178°/178°                     | 178°/178°                     | 178°/178°                   | 178°/178°                     | 178°/178°                   |
| <b>Resolution</b>                                     | <b>FHD</b> 1920x1080          | <b>FHD</b> 1920x1080          | <b>FHD</b> 1920x1080        | <b>FHD</b> 1920x1080          | <b>FHD</b> 1920x1080        |
| <b>Input</b>  | LVDS                          | LVDS                          | LVDS                        | LVDS                          | LVDS                        |
| <b>BLU/Converter integrated</b>                       | LED/NO                        | LED/NO                        | LED/NO                      | LED/NO                        | LED/YES                     |
| <b>Brightness (cd/m²)</b>                             | 250                           | 250                           | 300                         | 300                           | 250                         |
| <b>Temperature operating (°C)</b>                     | 0...+50                       | 0...+50                       | 0...+50                     | 0...+50                       | 0...+50                     |
| <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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# 23.8 to 27" TFT-Displays



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| Panel   | <a href="#">P238HAN01.0</a> | <a href="#">G240HW01V0</a> | <a href="#">AL240FHL01-N</a> | <a href="#">LM240WU8-SLA2</a> | <a href="#">P270HVN01.0</a> |
|---|-----------------------------|----------------------------|------------------------------|-------------------------------|-----------------------------|
| <b>Manufacturer</b>                                   | AUO                         | AUO                        | AMOLED                       | LG                            | AUO                         |
| <b>Type / size</b>                                    | AHVA / <b>23,8"</b>         | AMVA / <b>24"</b>          | IPS / <b>24"</b>             | IPS / <b>24"</b>              | AMVA / <b>27"</b>           |
| <b>Viewing angle (v/h)</b>                            | 178°/178°                   | 178°/178°                  | 178°/178°                    | 178°/178°                     | 178°/178°                   |
| <b>Resolution</b>                                     | <b>FHD</b> 1920x1080        | <b>FHD</b> 1920x1080       | <b>FHD</b> 1920x1080         | <b>FHD</b> 1920x1080          | <b>FHD</b> 1920x1080        |
| <b>Input</b>  | LVDS                        | LVDS                       | LVDS                         | LVDS                          | LVDS                        |
| <b>BLU/Converter integrated</b>                       | LED/NO                      | LED/YES                    | LED/NO                       | LED/NO                        | LED/NO                      |
| <b>Brightness (cd/m<sup>2</sup>)</b>                  | 300                         | 300                        | <b>1000</b>                  | 300                           | 350                         |
| <b>Temperature operating (°C)</b>                     | 0...+50                     | 0...+50                    | <b>-20...+70</b>             | 0...+50                       | 0...+50                     |
| <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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## 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

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## 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

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For more information please contact:

|  |  |  |
|--|--|--|
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| <b>USA</b><br>          | <b>Apollo Display Technologies, Corp.</b><br>87 Raynor Avenue,<br>Unit 1 Ronkonkoma,<br>NY 11779<br>United States of America         | Phone: +1 631 580-43 60<br>Fax: +1 631 580-43 70<br>E-Mail: <a href="mailto:info@apolloDisplays.com">info@apolloDisplays.com</a><br>Internet: <a href="http://www.apolloDisplays.com">www.apolloDisplays.com</a>                       |