## Industrial Monitors

### Industrial Monitor Selection Guide

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<td>15” XGA/17” SXGA/19” SXGA Industrial Monitors with Resistive Touchscreens, Direct-VGA, and DVI Ports</td>
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<td></td>
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<td>17”/19” SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports</td>
</tr>
<tr>
<td>FPM-3191S</td>
<td></td>
</tr>
<tr>
<td>TPC-1251SR</td>
<td>12.1” SVGA/15” XGA High Brightness LCD Intel Atom Touch Panel Computers</td>
</tr>
<tr>
<td>TPC-1551SR</td>
<td></td>
</tr>
<tr>
<td>FPM-3151SR</td>
<td>15” XGA High Brightness Industrial Monitor w/Resistive Touchscreen, Direct-VGA, DVI and Wide Operating Temperature</td>
</tr>
<tr>
<td>IPPC-8151S</td>
<td>15” XGA TFT LCD Celeron® M Fanless Industrial Panel PC with Stainless Steel</td>
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To view all of Advantech’s Industrial Monitors, please visit [www.advantech.com/products](http://www.advantech.com/products).
### Industrial Monitor Selection Guide

**Model**
- FPM-3121G/3151G
- FPM-3171G/3191G
- FPM-5151G/5171G/5191G
- FPM-5152G/5172G/5192G

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</tr>
</thead>
<tbody>
<tr>
<td>Display Type</td>
<td>SVGA/XGA TFT LCD</td>
<td>SXGA TFT LCD</td>
<td>XGA/SXGA/SXGA TFT LCD</td>
<td>XGA/SXGA/SXGA TFT LCD</td>
</tr>
<tr>
<td>Display Size</td>
<td>12.1&quot;/15&quot;</td>
<td>17&quot;/19&quot;</td>
<td>15&quot;/17&quot;/19&quot;</td>
<td>15&quot;/17&quot;/19&quot;</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>800 x 600/1024 x 768</td>
<td>1280 x 1024</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M</td>
<td>16.2 M</td>
<td>16.2 M/16.7M/16.2M</td>
<td>16.2 M/16.7M/16.2M</td>
</tr>
<tr>
<td>Luminance cd/m²</td>
<td>450/350</td>
<td>380/300</td>
<td>250/300/300</td>
<td>250/300/300</td>
</tr>
<tr>
<td>Backlight MTBF (hrs)</td>
<td>50000hrs</td>
<td>50000hrs</td>
<td>50000hrs</td>
<td>50000hrs</td>
</tr>
<tr>
<td>Display Port</td>
<td>VGA &amp; DVI-D</td>
<td>VGA &amp; DVI-D</td>
<td>VGA &amp; DVI-D</td>
<td>Display port</td>
</tr>
<tr>
<td>Touchscreen (optional)</td>
<td>Resistive</td>
<td>Resistive</td>
<td>Resistive</td>
<td>Resistive</td>
</tr>
<tr>
<td>OSD (onscreen display)</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Touchscreen Sensor</td>
<td>AMT</td>
<td>ELO</td>
<td>AMT</td>
<td>AMT</td>
</tr>
<tr>
<td>Touchscreen Driver</td>
<td>Penmount 6000</td>
<td>ELTOUCH</td>
<td>Penmount 6000</td>
<td>Penmount 6000</td>
</tr>
<tr>
<td>Inverter</td>
<td>-</td>
<td>TDK</td>
<td>TDK</td>
<td>TDK</td>
</tr>
<tr>
<td>Power Adapter (Voltage,AC)</td>
<td>100 ~ 240 VAC</td>
<td>100 ~ 240 VAC</td>
<td>100 ~ 240V Optional</td>
<td>100 ~ 240V Optional</td>
</tr>
<tr>
<td>DC Power Input (voltage)</td>
<td>24 VDC</td>
<td>N/A</td>
<td>10 ~ 30 V</td>
<td>10 ~ 30 V</td>
</tr>
<tr>
<td>Ingress Protection (Front Panel)</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Front panel: Aluminum rear cover; Stainless steel chassis</td>
<td>Front panel: Aluminum rear cover; Stainless steel chassis</td>
<td>Front panel: Aluminum and flat-sealed rear cover; Anti-rust coating</td>
<td>Front panel: Aluminum and flat-sealed rear cover; Anti-rust coating</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel, VESA arm, or wall &amp; desktop mount &amp; optional mounting kit 19&quot; rackmount (3151G)</td>
<td>Panel, wall, desktop, VESA arm &amp; 19&quot; rackmount (3171G)</td>
<td>Panel, wall, VESA arm, or stand, 19&quot; rackmount &amp; optional mounting kit</td>
<td>Panel, wall, VESA arm, or stand, 19&quot; rackmount &amp; optional mounting kit</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20 ~ 60°C (-4 ~ 140°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30 ~ 80°C (-22 ~ 176°F)</td>
<td>-20 ~ 60°C (-4 ~ 140°F)</td>
<td>-20 ~ 60°C (-4 ~ 140°F)</td>
<td>-20 ~ 60°C (-4 ~ 140°F)</td>
</tr>
<tr>
<td>Dimension</td>
<td>312 x 224 x 60 mm (12.2&quot; x 9.6&quot; x 2.3&quot;)</td>
<td>482 x 365 x 58 mm (17.7&quot; x 14.2&quot; x 2.3&quot;)</td>
<td>450 x 315 x 52 mm (17.7&quot; x 12.4&quot; x 2.0&quot;)</td>
<td>450 x 365 x 58 mm (18.9&quot; x 15.1&quot; x 2.3&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>3.12kg (6.87 lbs) 315G:7.3 kg (16.04 lbs)</td>
<td>317G:9.25 kg (20.39 lbs) 319G:15.5 kg (33.76 lbs)</td>
<td>6 kg (13.22 lbs) 8 kg (17.63 lbs) 10 kg (22.04 lbs)</td>
<td>6 kg (13.22 lbs) 8 kg (17.63 lbs) 10 kg (22.04 lbs)</td>
</tr>
<tr>
<td>Certification</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
</tr>
<tr>
<td>Inverter</td>
<td>TDK</td>
<td>TDK</td>
<td>TDK</td>
<td>TDK</td>
</tr>
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<td>CE, FCC, BSMI, CCC, UL</td>
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<td>Inverter</td>
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<td>TDK</td>
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<td>6 kg (13.22 lbs) 8 kg (17.63 lbs) 10 kg (22.04 lbs)</td>
</tr>
<tr>
<td>Certification</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CE, FCC, BSMI, CCC, UL</td>
</tr>
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## Selection Guide

### Model Specifications

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<th>FPM-3171S/3191S</th>
<th>FPM-8192V</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>-</td>
<td>Intel® Atom™ 1.33 GHz with 512KB cache</td>
<td>Intel® Celeron M 1.06GHz 1MB L2 on board</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>-</td>
<td>1GB SO-DIMM DDR2 667 SDRAM</td>
<td>1GB SO-DIMM DDR2 200pin 667MHz (up to 4GB)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>XGA TFT LCD</td>
<td>XGA TFT LCD</td>
<td>XGA TFT LCD</td>
<td>SXGA TFT LCD with transflective display</td>
<td>-</td>
</tr>
<tr>
<td><strong>Display Size</strong></td>
<td>15&quot;</td>
<td>12.1&quot;/15&quot;</td>
<td>15&quot;</td>
<td>17&quot;/19&quot;</td>
<td>19&quot;</td>
</tr>
<tr>
<td><strong>Max. Resolution</strong></td>
<td>1024 x 768</td>
<td>800 x 600/1024 x 768</td>
<td>1024 x 768</td>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td><strong>Max. Colors</strong></td>
<td>16.2M</td>
<td>16.2 M</td>
<td>16.2 M</td>
<td>16.2 M</td>
<td>16.7M</td>
</tr>
<tr>
<td><strong>Luminance cd/m²</strong></td>
<td>1000</td>
<td>1000</td>
<td>350</td>
<td>380/300</td>
<td>400</td>
</tr>
<tr>
<td><strong>Viewing Angle (H/V°)</strong></td>
<td>125/140</td>
<td>110/160, 120/140</td>
<td>140/125</td>
<td>170/160, 178/178</td>
<td>140/135</td>
</tr>
<tr>
<td><strong>Backlight MTBF (hrs)</strong></td>
<td>50000hrs</td>
<td>50000hrs</td>
<td>50000hrs</td>
<td>50000hrs</td>
<td>50000hrs</td>
</tr>
<tr>
<td><strong>Video Port</strong></td>
<td>VGA &amp; DVI-D</td>
<td>-</td>
<td>-</td>
<td>VGA &amp; DVI-D</td>
<td>VGA, DVI-D, Composite Video, S-Video</td>
</tr>
<tr>
<td><strong>Touchscreen</strong></td>
<td>Resistive</td>
<td>Resistive</td>
<td>Resistive</td>
<td>Resistive</td>
<td>Resistive</td>
</tr>
<tr>
<td><strong>Network (LAN)</strong></td>
<td>YES</td>
<td>2 x 10/100/1000Base-T</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>I/O ports</strong></td>
<td>AMT</td>
<td>1 x RS-232 (with isolation), 1 x RS-422/485 (with isolation), 2 x USB 2.0 (Hs/ls)</td>
<td>3 x RS-232; 4 x USB 2.0, 2 x PS2 (Keyboard, Mouse), 1 x VGA Port, Mic-in, Line-in, Line-out</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>HDD (Optional)</strong></td>
<td>Penmount 6000</td>
<td>1 x 2.5&quot; SATA HDD</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>OLED (onscreen display)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td><strong>CompactFlash Slots</strong></td>
<td>1 x CompactFlash® Slot</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td><strong>Expansion Slots</strong></td>
<td>-</td>
<td>1 x half-length PCI Slot</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Power Input Voltage</strong></td>
<td>100 – 240 Vac</td>
<td>18 – 32 Vac</td>
<td>10 – 30 Vac, 18A</td>
<td>100 – 240 Vac</td>
<td>100-240V Optional</td>
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<tr>
<td><strong>DC Power Input (voltage)</strong></td>
<td>24 Vac</td>
<td>24 Vac</td>
<td>24 Vac</td>
<td>N/A</td>
<td>24 Vac</td>
</tr>
<tr>
<td><strong>Ingress Protection (Front Panel)</strong></td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
<td>NEMA4/IP65</td>
</tr>
<tr>
<td><strong>Enclosure</strong></td>
<td>Front panel: Aluminum Rear cover: Stainless steel chassis</td>
<td>Front bezel: Die-cast aluminum alloy Back housing: SECC</td>
<td>Fanless with stainless steel</td>
<td>Front panel: Stainless steel Rear cover: Stainless steel chassis</td>
<td>Aluminum with coating</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Panel, VESA arm, or wall &amp; desktop mount &amp; optional mounting kit 19&quot; rackmount</td>
<td>Desktop, wall or panel mount</td>
<td>Desktop, wall or panel mount</td>
<td>Panel, wall, desktop, VESA arm</td>
<td>Panel</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-20 – 60°C (-4 – 140°F)</td>
<td>-20 – 60°C (-4 – 140°F)</td>
<td>0 – 50°C (32 – 122°F)</td>
<td>0 – 50°C (32 – 122°F)</td>
<td>-10 – 55°C (14 – 131°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-30 – 80°C (-22 – 176°F)</td>
<td>-30 – 80°C (-22 – 176°F)</td>
<td>-20 – 60°C (-4 – 140°F)</td>
<td>-20 – 60°C (-4 – 140°F)</td>
<td>-40 – 70°C (-40 – 140°F)</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>422 x 310 x 70 mm (16.61&quot; x 12.2&quot; x 2.76&quot;)</td>
<td>311 x 237 x 54 mm (12.2&quot; x 9.3&quot; x 2.17&quot;)</td>
<td>383 x 307 x 58.1 mm (15.1&quot; x 12.1&quot; x 2.3&quot;)</td>
<td>400 x 314 x 90 mm (15.7&quot; x 12.4&quot; x 3.6&quot;)</td>
<td>483 x 378 x 64 mm (18.2&quot; x 15.0 x 2.5&quot;)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>7.73 kg (17.04 lbs)</td>
<td>2.5 kg (5.51 lb)</td>
<td>3 kg (5.51 lb)</td>
<td>12 Kg (26.45 lbs)</td>
<td>13.1 Kg (28.88 lbs)</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE, FCC, CCC, UL</td>
<td>BSMI, CCC, CE, FCC Class A, UL</td>
<td>UL, CE, FCC Class A, CCC, BSMI</td>
<td>CE, FCC, BSMI, CCC, UL</td>
<td>CCC, CE, FCC, DNV, IEC 60945, IACS-E10</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Windows XP/CE/CE/Linux</td>
<td>Windows 2000, XP Professional and WinXP</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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Introduction

The FPM-5000G series provides 15", 17" and 19" color TFT LCD flat panel monitors specifically designed for industrial applications. With a viewing size from 15" to 19", they present ample display areas as well as vivid and sharp images. It features display port signal transmission, which allows display port control cards to be used in your system. The onscreen display allows users to adjust the images on the screen with two user-defined settings. The front access USB connector provides easy access the controller, and the industrial 18 - 32VDC wide range power support makes this product an excellent option for Factory and Machine Automation display solutions.

Specifications

General
- **Button Controls**: OSD control pad on rear side with lockable function
- **Certification**: BSMI, CCC, CE, FCC Class B, UL
- **Dimensions (WxHxD)**:
  - FPM-5152G: 449.92 x 315.63 x 50.5 mm (17.71" x 12.43" x 2")
  - FPM-5172G: 481.9 x 355.9 x 55 mm (18.97" x 14.01" x 2.17")
  - FPM-5192G: 481.9 x 384.6 x 59 mm (18.97" x 15.14" x 2.32")
- **Enclosure**: Front panel: Aluminum and flat-sealed
- **Mounting**: Panel, wall, desktop, VESA arm, or 19" rackmount
- **Power Input**: Phoenix Jack - 18 ~ 32VDC input
- **Power Consumption**: 19W+20%, 25W+20%, 34W+20%
- **USB**: Front USB access for extension
- **Video Port**: Display port
- **Weight (Net)**: 6 kg (13.22 lbs)/8 kg (17.63 lbs)/10 kg (22.04 lbs)

LCD Display
- **Display Type**: XGA/SXGA/SXGA TFT LCDs
- **Display Size**: 15/"17/"19"
- **Max. Resolution**: 1024 x 768/1280 x 1024/1280 x 1024
- **Max. Color**: 16.2M/16.7M/16.7M
- **Viewing Angle (H/V°)**: 160/140, 170/160, 178/178
- **Luminance (cd/m²)**: 350/350/300
- **Backlight Life (hrs)**: 50,000
- **Contrast Ratio**: 700/1:1000:1/2000:1

Touchscreen (Optional)
- **Sensor**: AMT
- **Driver**: Penmount 6000
- **Type**: 5-wire/5-wire/5-wire Resistive
- **Interface**: USB
- **Lifespan**: 10/10/36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission**: > 80%
- **OS Support**: Windows 2000, XP, Vista, 7, XPe, CE and Linux
- **Power Consumption**: +5 V @ 100 mA
- **Touch Resolution**: Linearity

Environment
- **Operation Temperature**: 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature**: -20 ~ 60°C (-4 ~ 140°F)
- **Humidity (Storage)**: 10 ~ 90% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Vibration**: 5 ~ 500 Hz, 1 Gms (Operating, Random)

Ordering Information
- **FPM-5192G-R3AE**: 19" SXGA Ind. Monitor w/Resistive TS(USB)
- **FPM-5172G-R3AE**: 17" SXGA Ind. Monitor w/Resistive TS(USB)
- **FPM-5152G-R3AE**: 15" XGA Ind. Monitor w/Resistive TS(USB)
Panel Cut-out Dimensions: FPM-5152G: 449.92 x 315.63 x 50.5 mm (17.71" x 12.43" x 2")
FPM-5172G: 481.9 x 355.9 x 55 mm (18.97" x 14.01" x 2.17")
FPM-5192G: 481.93 x 384.6 x 59 mm (18.97" x 15.14" x 2.32")

Accessories
- FPM-5151G-SMKE FPM-5151G/5171G Stand Kit
- FPM-5191G-SMKE FPM-5191G Stand Kit
- IPPC-6152A-RMKE IPPC-6152A/6172A/6192A Rack Mount Kit
- IPPC-6172A-RMKE IPPC-6152A/6172A Rack Mount Kit
- IPPC-6192A-RMKE IPPC-6192A Rack Mount Kit
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M
- 1757002742 Adapter AC 90-264V 57W SPU63-105

Note:
- Power supply: 18-32 Vdc, Power Input with Phoenix Jack
- Display Port with Phoenix Jack
- TS Interface - USB Port

Front Accessible USB Port

I/O View

Back View

Note: VESA mounting screw length: M4x6mm
**Introduction**

The FPM-5000 series provides 15", 17" and 19" color TFT LCD flat panel monitors specifically designed for industrial applications. With a viewing size from 15" to 19", they present ample display areas as well as vivid and sharp images. It features Direct-VGA & DVI-D signal transmission, which allows VGA control cards to be used in your system. The onscreen display allows users to adjust the images on the screen with two user-defined settings. The front access USB connector provides easy access to the controller, and the industrial 10-30 VDC wide range power support makes this product an excellent option for Factory and Machine Automation display solutions.

**Specifications**

**General**
- **Button Controls**: OSD control pad on rear side with lockable function
- **Certification**: BSMI, CCC, CE, FCC Class B, UL
- **Dimensions (WxHxD)**
  - 5151G: 449.92 x 315.63 x 50.5 mm (17.71" x 12.43" x 2"
  - 5171G: 481.9 x 355.9 x 55 mm (18.97" x 14.01" x 2.17"
  - 5191G: 481.93 x 384.6 x 59 mm (18.97" x 15.14" x 2.32"
- **Enclosure**: Front panel: Aluminum and flat-sealed
- **Mounting**: Panel, wall, desktop, VESA arm, or 19" rackmount
- **Power Input**: Phoenix Jack - 10 ~ 30 VDC input
  - Optional external 57 W power adapter, with AC 100 V ~ 240 V input and DC +12 V @ 4.7A output
- **Power Consumption**: 18 W + 20%/31 W + 20%/32 W + 20%
- **USB**: Front USB access for extension
- **Video Port**: VGA & DVI-D
- **Weight (Net)**: 6 kg (13.22 lbs)/8 kg (17.63 lbs)/10 kg (22.04 lbs)

**LCD Display**
- **Display Type**: XGA/SXGA/SXGA TFT LCDs
- **Display Size**: 15"/17"/19"
- **Max. Resolution**: 1024 x 768/1280 x 1024
- **Max. Color**: 16.2M
- **Viewing Angle (H/V°)**: 160/130, 170/160, 178/178
- **Luminance (cd/m²)**: 250/380/300
- **Backlight Life (hrs)**: 50,000
- **Contrast Ratio**: 700:1/1000:1/1300:1

**Touchscreen (Optional)**
- **Sensor**: AMT
- **Driver**: Penmount 6000
- **Type**: 8-wire/8-wire/5-wire Resistive
- **Interface**: RS-232 & USB
- **Power Consumption**: +5 V @ 100 mA
- **Touch Resolution**: Linearity

**Environment**
- **Operation Temperature**: 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature**: -20 ~ 60°C (-4 ~ 140°F)
- **Humidity (Storage)**: 10 ~ 90% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Vibration**: 5 ~ 500 Hz, 1 Gms (Operating, Random)

**Ordering Information**
- **FPM-5191G-X0AE**: 19" SXGA Ind. Monitor
- **FPM-5191G-R3AE**: 19" SXGA Ind. Monitor w/Resistive TS (RS-232, USB)
- **FPM-5171G-X0AE**: 17" SXGA Ind. Monitor
- **FPM-5171G-R3AE**: 17" SXGA Ind. Monitor w/Resistive TS (RS-232, USB)
- **FPM-5151G-X0AE**: 15" XGA Ind. Monitor
- **FPM-5151G-R3AE**: 15" XGA Ind Monitor w/Resistive TS (RS-232, USB)
**Dimensions**

**Accessories**

- **FPM-5151G-SMKE**: FPM-5151G/5171G Stand Kit
- **FPM-5191G-SMKE**: FPM-5191G Stand Kit
- **IPPC-6152A-RMKE**: IPPC-6152A/FPM-5151G Rack Mount Kit
- **IPPC-6172A-RMKE**: IPPC-6172A/FPM-5171G Rack Mount Kit
- **IPPC-6192A-RMKE**: IPPC-6192A/FPM-5191G Rack Mount Kit
- **1702002600**: Power Cable US Plug 1.8 M
- **1702002605**: Power Cable EU Plug 1.8 M
- **1702031801**: Power Cable UK Plug 1.8 M
- **1702031836**: Power Cable China/Australia Plug 1.8 M
- **1757002740**: Adapter AC 90-264V 57W SPU63-105

**Panel Cut-out Dimensions:**

- **FPM-5151G**: 424 x 293 mm (16.69" x 11.54")
- **FPM-5171G**: 454 x 338 mm (17.87" x 13.31")
- **FPM-5191G**: 454 x 338 mm (17.87" x 13.31")

**I/O View**

- 10-30 Vdc Power Input with Phoenix Jack
- 12V Power Input with DIN-rail
- TS Interface - USB Port
- VGA Port
- Panel Mount
- T/S Interface Switch
- DVI-D port

**Back View**

- VESA Mount
- LCD OSD Control Keys
- Wallmount

**Front Accessible USB Port**

**Note:** VESA mounting screw length: M4x6mm

**Note:**

- FPM-5151G: 449.92 [17.71]
- FPM-5171G: 481.93 [18.97]
- FPM-5191G: 481.93 [18.97]
- FPM-5151G: 3.00 [0.12] FPM-5171G: 6.00 [0.24] FPM-5191G: 7.00 [0.28]
FPM-3171G/FPM-3191G is a 17”/19” color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 17”/19”, it presents an ample display area as well as vivid and sharp images for your HMI. It features direct VGA signal transmission. You can thus upgrade the displays without making changes to the existing system. The onscreen display function also makes it easy to adjust the images on the screen. The whole chassis is designed in stainless steel and the front panel is made of aluminum with front panel NEMA4/IP65 compliance.

Features

- 17”/19” SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and aluminum front panel
- Anti-reflective screen with tempered glass
- OSD control pad on front panel
- Supports industrial 24-48 VDC power input (optional)
- Supports panel, wall, desktop, rack or VESA arm mounting
- Front panel is NEMA4/IP65 compliant

Introduction

FPM-3171G/FPM-3191G is a 17”/19” color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as 17”/19”, it presents an ample display area as well as vivid and sharp images for your HMI. It features direct VGA signal transmission. You can thus upgrade the displays without making changes to the existing system. The onscreen display function also makes it easy to adjust the images on the screen. The whole chassis is designed in stainless steel and the front panel is made of aluminum with front panel NEMA4/IP65 compliance.

Specifications

General

- **Button Controls**: OSD (Onscreen Display) control pad on front panel
- **Certification**: BSMI, CCC, CE, FCC Class B, UL
- **Dimensions (W x H x D)**
  - FPM-3171G: 482mm x 354.8mm x 63.5mm (18.98” x 13.97” x 2.5”)
  - FPM-3191G: 482mm x 399mm x 66 mm (19” x 15.7” x 2.6”)
- **Enclosure**: Front panel: Aluminum with coating
  - Rear cover: Stainless steel chassis
- **Mounting**: Panel, wall, desktop, VESA arm & 19” rackmount
- **Power Input**: DC Jack - Optional external 57 W power adapter, with 100 ~ 240 VAC input and 12 VDC @ 4.75 A output
- **Power Consumption**: 35 W + 20%
- **Video Port**: VGA & DVI-D port
- **Weight (Net)**
  - FPM-3171G: 9.25 kg (20.39 lbs)
  - FPM-3191G: 10.65 kg (23.46 lbs)

LCD Display

- **Display Type**: SXGA TFT LCD
- **Display Size**
  - FPM-3171G: 17”
  - FPM-3191G: 19”
- **Max. Resolution**: 1280 x 1024
- **Max. Color**: 16.2 M
- **Viewing Angle (H/V°)**
  - FPM-3171G: 170/160
  - FPM-3191G: 178/178
- **Luminance (cd/m²)**
  - FPM-3171G: 380
  - FPM-3191G: 300 cd/m²
- **Backlight Life (hrs)**
  - FPM-3171G: 10000
  - FPM-3191G: 13000

Touchscreen (Optional)

- **Sensor**: ELO
- **Driver**: ELOTOUCH
- **Type**: 5-wire Resistive
- **Interface**: RS-232 or USB
- **Lifespan**: 35 million touches at a single point
- **Light Transmission**: 80% ± 5
- **OS Support**: Windows XP, Vista, 7, XPe, CE and Linux
- **Power Consumption**: +5 V @ 100 mA
- **Touch Resolution**: Linearity

Environment

- **Operation Temperature**: 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature**: -20 ~ 60°C (-4 ~ 140°F)
- **Humidity (Storage)**: 10 ~ 90% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Vibration**: 5 ~ 500 Hz, 1 Grms (Operating, Random)

Ordering Information

- **FPM-3171G-XCE**: 17” SXGA Ind. Monitor
- **FPM-3171G-RCE**: 17” SXGA Ind Monitor w/Resistive TS (RS-232, USB)
- **FPM-3191G-XCE**: 19” SXGA Ind. Monitor
- **FPM-3191G-RCE**: 19” SXGA Ind Monitor w/Resistive TS (RS-232, USB)

Accessories

- **PWR-246E**: Ind. DC to DC w/24-48 VDC 1.4-2.9A in 12 VDC 5A Out
- **1702002600**: Power Cable US Plug 1.8 M
- **1702002605**: Power Cable EU Plug 1.8 M
- **1702031801**: Power Cable UK Plug 1.8 M
- **1757002742**: Power Cable China/Australia Plug 1.8 M
- **1757002742**: Adapter AC 90-264V 57W SPU63-105
### Dimensions

Diameters of the rackmount holes:
- Vertical: 6.5 mm
- Horizontal: 9 mm

### I/O View

**FPM-3171G**
- RS-232/USB Port (Touchscreen)
- DVI-D
- VGA Port
- Power Connector
- Stainless Steel Stand

**FPM-3191G**
- RS-232 Port for Touchscreen
- DVI-D
- VGA Port
- Power Connector
- Stainless Steel Stand

### Rear View

**FPM-3171G**
- Wallmount Bracket
- Panel Mount Bracket

**FPM-3191G**
- Wallmount Bracket
- Panel Mount Bracket

### Mounting with DC Source

**FPM-3171G/FPM-3191G**
- Diameters of the rackmount holes:
  - Vertical: 6.5 mm
  - Horizontal: 9 mm

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**Panel Cut-out Dimensions:**
- **FPM-3171G:** 451 x 333 mm (17.76" x 13.11")
- **FPM-3191G:** 444 x 376.4 mm (17.48" x 14.82")
**FPM-3151G**

## Features
- 15” XGA LED backlight LCD with low power consumption
- Robust anodized coated aluminum front bezel and stainless steel rear cover
- Supports wide operating temperatures
- Increase reliability by enhanced 5-wire resistive touch sensor
- Anti-reflective screen with tempered glass
- Full enclosure ground isolation protection
- Supports VGA/DVI input, dual touch interfaces and two power inputs
- Front lockable OSD membrane keys with user-defined brightness setting
- Front panel is NEMA4/IP65 compliant
- Supports panel, VESA, wall and desktop stand mounting

## Introduction
The FPM-3151G is a particularly rugged and reliable 15” XGA wide temperature industrial monitor for a variety of industry applications. Equipped with a hard anodized coating, stainless steel chassis, and -20 to 60°C operating temperature, it can satisfy demands in a wide range of harsh industrial applications. This model also features enhanced 5-wire resistive touch and system ground isolation protection to enhance the reliability. FPM-3151G also provides lockable OSD keys on the front panel with two user-defined contrast/brightness settings.

## Specifications

### General
- **Button Controls**: OSD control pad on front panel with lockable function
- **Certification**: CE, FCC Class A, BSMI, CCC, UL, Energy Star
- **Dimensions (W x H x D)**: 422 x 310 x 70 mm (16.61” x 12.2” x 2.76”)
- **Enclosure**: Front panel: Aluminum with hard anodizing coating Rear cover: Stainless steel Ground Isolation Protection
- **Mounting**: Panel, wall, desktop, VESA arm, or 19” rackmount with optional mounting kit
- **Power Input**: Phoenix Jack: 24 Vdc input DC Jack: external 57 W power adapter, with 100 – 240 Vdc input and 12 Vdc @ 4.75 A output
- **Power Consumption**: 12W
- **Video Port**: VGA & DVI-D Port
- **Weight (Net)**: 7.73 kg (17.04 lbs)

### LCD Display
- **Display Type**: XGA TFT LCD
- **Backlight Type**: LED
- **Display Size**: 15”
- **Max. Resolution**: 1024 x 768
- **Max. Color**: 16.2M (RGB 8-bits) or 262k colors (RGB 6-bits)
- **Viewing Angle (H/V°)**: 160/140
- **Luminance (cd/m²)**: 350
- **Backlight Life (hrs)**: 50,000
- **Contrast Ratio**: 700:1

### Touchscreen (Optional)
- **Sensor**: AMT
- **Driver**: Penmount 6000
- **Type**: 5-wire resistive with enhanced ITO film
- **Interface**: USB & RS-232 (Combo)
- **Lifespan**: 36 million with a silicone rubber R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission**: > 80%
- **OS Support**: Windows 2000, XP, Vista, 7, XPe, CE and Linux
- **Power Consumption**: +5 V @ 100 mA
- **Touch Resolution**: Linearity

### Environment
- **Operation Temperature**: -20 – 60°C (-4 – 140°F)
- **Storage Temperature**: -30 – 80°C (-22 – 176°F)
- **Humidity (Storage)**: 10 – 95% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Shock**: 11ms, 10G (Non Operating, Half Sine Wave)
- **Vibration**: 5 – 500 Hz, 1 Grms (Operating, Random)

### Ordering Information
- **FPM-3151G-X0AE**: 15” XGA Ind. Monitor with Wide Temp
- **FPM-3151G-R3AE**: 15” XGA Ind. Monitor with Wide Temp, Resistive TS
- **FPM-3151SR-R3AE**: 15” XGA Ind. Monitor w/ Sunlight Readable Display
Dimensions

Panel Cut-out Dimensions: 396 x 296 mm (15.59" x 11.65")

Accessories
- FPM-3151G-RMKE Mounting kit for 19" industrial rack
- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

I/O View
- 24 VDC Input
- 100 – 240 VAC Power Adapter
- VGA Port
- DVI-D
- Touch Screen (RS-232)
- Touch Screen (USB)
- 100 ~ 240 VAC Power Adapter
- 24 VDC Input
- VGA Port
- DVI-D
- Touch Screen (RS-232)
- Touch Screen (USB)

Rack Mount (FPM-3151G-RMKE)
**Introduction**

The FPM-3121G is a particularly rugged and reliable 12.1" SVGA wide temperature industrial monitor for a variety of industry applications. Equipped with a hard anodized coating, stainless steel chassis, and -20 to 60°C operating temperature, it can satisfy demands in a wide range of harsh industrial applications. This model also features enhanced 5-wire resistive touch and system ground isolation protection to enhance the reliability. Lockable OSD keys on front panel with 2 user-defined contrast/brightness settings.

**Specifications**

### General
- **Button Controls**: OSD control pad on front side with lockable function. Two user-defined contrast/brightness settings.
- **Certification**: CE, FCC Class A, BSMI, CCC, UL.
- **Dimensions (W x H x D)**: 312 x 244 x 60 mm (12.28" x 9.61" x 2.36")
- **Enclosure**: Front panel: Aluminum with hard anodized coating. Rear cover: Stainless steel chassis. Ground isolation protection.
- **Mounting**: Panel, VESA arm, or wall & desktop mount with optional mounting kit.
- **Power Input**: Phoenix Jack: 24 Vdc input. DC Jack: external 57 W power adapter, with 100 ~ 240 Vac input and +12 Vdc @ 4.75 A output.
- **Power Consumption**: 9 W.
- **Video Port**: VGA & DVI-D Port.
- **Weight (Net)**: 4.07 kg (8.975 lbs).

### LCD Display
- **Display Type**: SVGA TFT LCD (XGA optional).
- **Backlight Type**: LED.
- **Display Size**: 12.1".
- **Max. Resolution**: 800 x 600 (1024 x 768 optional).
- **Max. Color**: 16.2M (RGB 8-bit) or 262k colors (RGB 6-bit).
- **Viewing Angle (H/V°)**: 160/140 (160/160 optional).
- **Luminance (cd/m²)**: 450 (500 optional).
- **Operation Life (hrs)**: 50,000.
- **Contrast Ratio**: 700:1.

### Touchscreen (Optional)
- **Sensor**: AMT.
- **Driver**: Penmount 6000.
- **Type**: 5-wire Resistive with enhanced ITO film.
- **Interface**: USB & RS-232 (Combo).
- **Lifespan**: 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s.
- **Light Transmission**: > 80%.
- **OS Support**: Windows 2000, XP, Vista, 7, XP, CE and Linux.
- **Power Consumption**: +5 V @ 100 mA.
- **Touch Resolution**: Linearity.

### Environment
- **Operation Temperature**: -20 ~ 60°C (-4 ~ 140°F).
- **Storage Temperature**: -30 ~ 80°C (-22 ~ 176°F).
- **Humidity (Storage)**: 10 ~ 95% non-condensing.
- **Waterproof**: Front panel is NEMA4/IP65 compliant.
- **Shock**: 11ms, 10G (Non Operating, Half Sine Wave).
- **Vibration**: 5 ~ 500 Hz, 1 Grms (Operating, Random).

### Ordering Information
- **FPM-3121G-X0AE**: 12.1" SVGA Ind. Monitor with Wide Temp.
- **FPM-3121G-R3AE**: 12.1" SVGA Ind. Monitor w/Wide Temp, Resistive TS.
- **FPM-3121SR-R3AE**: 12.1" SVGA Ind. Monitor w/Sunlight Readable Display.
- **FPM3121GR3A1101E-T**: 12.1" XGA Ind. Monitor with Wide Temp, Resistive TS.
Dimensions

Panel Cut-out Dimensions: 303.5 x 229.5 mm (11.95” x 9.04”)

Accessories
- FPM-2150G-SMKE  Mounting kit for desktop stand & wall
- 1702002600  Power Cable US Plug 1.8 M
- 1702002605  Power Cable UK Plug 1.8 M
- 1702031801  Power Cable EU Plug 1.8 M
- 1702031836  Power Cable China/Australia Plug 1.8 M

I/O View

Mounting Method

Wall Mount
Power Adapter Mount
Desktop Stand Kit

VESA Mount (75/100 mm)
**FPM-3171S**
**FPM-3191S**

17”/19” SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports

### Introduction

FPM-3171S/FPM-3191S is a 17”/19” color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as large as 17”/19”, it presents an ample display area as well as vivid and sharp images for your HMI.

### Specifications

**General**
- **Button Controls**: OSD (Onscreen Display) control pad on front panel
- **Certification**: BSMI, CCC, CE, FCC Class B, UL
- **Dimensions (W x H x D)**:
  - FPM-3171S: 462.8 x 378.4 x 63.9 mm (18.22” x 14.9” x 2.52”)
  - FPM-3191S: 482 x 399.2 x 66 mm (18.98” x 15.72” x 2.6”)
- **Enclosure**: Front panel: Stainless steel with 316L level
  - Rear cover: Stainless steel chassis
  - Mounting holes on rear cover are designed for PWR-246E DC Source
- **Mounting**: Panel, wall, desktop, VESA arm
- **Power Input**: DC Jack - Optional external 57 W power adapter, with 100 ~ 240 VAC input and 12 VDC @ 4.75 A output
- **Power Consumption**: 35 W + 20%
- **Video Port**: VGA & DVI-D port
- **Weight (Net)**:
  - FPM-3171S: 13.1 Kg (28.88 lbs)
  - FPM-3191S: 15 Kg (33.07 lbs)

**LCD Display**
- **Display Type**: SXGA TFT LCD
- **Display Size**: FPM-3171S: 17”
  - FPM-3191S: 19”
- **Max. Resolution**: 1280 x 1024
- **Max. Color**: 16.2 M
- **Viewing Angle (H/V°)**:
  - FPM-3171S: 170/160
  - FPM-3191S: 178/178
- **Luminance (cd/m²)**:
  - FPM-3171S: 380 cd/m²
  - FPM-3191S: 300 cd/m²
- **Backlight Life (hrs)**: 50,000
- **Contrast Ratio**:
  - FPM-3171S: 1000 : 1
  - FPM-3191S: 1300 : 1

### Features

- 17”/19” SXGA TFT LCD with resolution up to 1280 x 1024
- Robust design with stainless steel chassis and front panel
- Anti-reflective screen with tempered glass
- OSD control pad on front panel
- Supports industrial 24-48 VDC power input (optional)
- Supports panel, wall, desktop, VESA arm mounting
- Front panel is NEMA4X/IP65 compliant
- Front panel stainless steel with 316L level

### Touchscreen (Optional)

- **Sensor**: ELO
- **Driver**: ELOTOUCH
- **Type**: 5-wire Resistive
- **Interface**: RS-232 or USB
- **Lifespan**: 35 million touches at a single point
- **Light Transmission**: 80% ±5
- **OS Support**: Windows XP, Vista, 7, XP, CE and Linux
- **Power Consumption**: ±5 V @ 100 mA
- **Touch Resolution**: Linearity

### Environment

- **Operation Temperature**: 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature**: -20 ~ 60°C (-4 ~ 140°F)
- **Humidity (Storage)**: 10 ~ 90% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Vibration**: 5 ~ 500 Hz, 1 Grms (Operating, Random)

### Ordering Information

- **FPM-3171S-R3AE**: 17” SXGA Ind. Monitor w/Resistive TS (RS-232,USB)
- **FPM-3191S-R3AE**: 19” SXGA Ind. Monitor w/Resistive TS (RS-232,USB)

### Accessories

- **PWR-246E**: Ind. DC to DC w/24-48 VDC, 1.4-2.9A In 12 VDC, 5A Out
- **1702002600**: Power Cable US Plug 1.8 M
- **1702002605**: Power Cable EU Plug 1.8 M
- **1702031801**: Power Cable UK Plug 1.8 M
- **1702031836**: Power Cable China/Australia Plug 1.8 M
- **1757002742**: Adapter AC 90-264V 57W SPU63-105

**Introduction**

FPM-3171S/FPM-3191S is a 17”/19” color TFT LCD flat panel monitor specifically designed for industrial applications. With a viewing size as large as large as 17”/19”, it presents an ample display area as well as vivid and sharp images for your HMI.
### Dimensions

FPM-3171S: 462.80 [18.22"]
FPM-3191S: 489.20 [19.26”]

FPM-3171S: 100.00 [3.94]
FPM-3191S: 90.00 [3.54]

Panel Cut-out Dimensions: FPM-3171S: 451 x 333 mm (17.76” x 13.11”)  
FPM-3191S: 444 x 376.4 mm (17.48” x 14.82")

### I/O View

**FPM-3171S**
- Touchscreen(RS-232)
- VGA Port
- Touchscreen(USB)
- DVI-D
- PowerConnector
- On/Off
- Auto/Exit
- Menu/Sel
- Status LED
- Source

**FPM-3191S**
- Touchscreen(RS-232)
- VGA Port
- Touchscreen(USB)
- DVI-D
- PowerConnector
- Status LED
- Source
- Menu/Sel

**FPM-3171S/3191S Front View**
Introduction
For sunlight readable applications, the TPC extends its Touch Panel Computer range with a high brightness and optical bonding solution. The LCD display provides a 1000 nits solution. Optical bonding enhances its readability by providing a reflection rate of under 0.2%. TPC-1251SR/1551SR making it perfect for outdoor applications.

Specifications

General
- BIOS: Award® 4 MB
- Certifications: BSMI, CCC, CE, FCC Class A, UL
- Cooling System: Fanless design
- Dimensions (W x H x D): 1251SR: 311 x 237 x 54 mm (12.24" x 9.33" x 2.12")
  1551SR: 383 x 307 x 58.1 mm (15.08" x 12.09" x 2.29")
- Enclosure: 1251H/1551H Front bezel: Die-cast Aluminum Alloy
  Back housing: SECC
- Mounting: Desktop, Wall or Panel Mount
- OS Support: Windows XP/WES7/XPe/CE/Linux
- Power Consumption: 35 W/40 W (typical)
- Power Input: 18 ~ 32 VDC
- Watchdog Timer: 1 ~ 255 sec (system)
- Weight (Net): 2.5 kg (5.51 lb)/3 kg (5.51 lb)

System Hardware
- CPU: Intel® Atom™ processor (up to 1.33 GHz)
- Chipset: eMenlow XL + Poulso
- Memory: 1GB SO-DIMM DDR2 667 SDRAM
- LAN: 10/100/1000Base-T x 2
- Storage: CompactFlash® slot x 1
- I/O: RS-232 x 1 (with isolation)
  RS-422/485 x 1 (with isolation)
  USB 2.0 x 2 (Host)

LCD Display
- Display Type: SVGA/XGA TFT LED LCD
- Display Size: 12.1"/15"
- Max. Resolution: 800 x 600/1024 x 768
- Max. Colors: 262 K
- Luminance cd/m²: 1000
- Viewing Angle (H/V°): 110/160, 120/140
- Backlight Life: 50,000 hrs
- Contrast Ratio: 600:1/1100:1

Touchscreen
- Lifespan: 10 million touches at single point
- Light Transmission: Above 75%
- Resolution: Linearity
- Type: 5-wire, analog resistive

Environment
- Humidity: 10 – 95% RH @ 40°C, non-condensing
- Ingress Protection: Front panel: NEMA4, IP65
- Operating Temperature: -20 ~ 60°C (-4 ~ 140°F)
- Storage Temperature: -30 ~ 80°C (-22 ~ 176°F)
- Vibration Protection: 2 G rms (5 ~ 500 Hz)
  (Operating, random vibration)
Dimensions

Panel Cut-out Dimensions: TPC-1251SR: 302.5 x 228.5 mm (11.9” x 9”)
TPC-1551SR: 374.5 x 298.5 mm (14.7” x 11.7”)

Ordering Information

- TPC-1251SR-Z2AE 12.1” Sunlight Readable Touch Panel PC, Atom™
  1.33GHz, 1GB
- TPC-1551SR-Z2AE 15” Sunlight Readable Touch Panel PC, Atom™
  1.33GHz, 1GB

Accessories

- TPC-1570H-SMKE TPC-1551SR Desktop Stand
- TPC-1250H-SMKE TPC-1251SR Desktop Stand
- TPC-1570H-WMKE TPC-1551SR Wallmount Kit
- TPC-1250H-WMKE TPC-1251SR Wallmount Kit
- TPC-651H-EHKE TPC-651H/1251H/1551H Extension HDD Kit
- PWR-247-AE 24 V 50 W AC-DC Power Adapter
- 1702002600 Power Cord 3P UL/CSA(USA) 125V 10A 1.83M

* Stand and Wall mount kits not compatible with HDD extension kit.

Rear View

TPC-1251SR/1551SR

- a. COM (RS-232, RS-422/485)
- b. USB 2.0
- c. LAN (10/100/1000)
- d. Power Receptor

* Stand and Wall mount kits not compatible with HDD extension kit.
Introduction

For sunlight readable applications, FPM-3151SR provides high brightness and optical bonding solution. The LCD display is up to 1000 nits. Optical bonding enhances its readability by providing a reflection rate of under 0.2%. FPM-3151SR makes it perfect for outdoor applications.

Specifications

General
- **Button Controls**: OSD control pad on front panel with lockable function
- **Certification**: CE, FCC Class A, CCC, UL, Energy Star
- **Dimensions (W x H x D)**: 422 x 310 x 70 mm (16.61” x 12.2” x 2.76”)
- **Enclosure**: Front panel: Aluminum with hard anodizing coating
  Rear cover: Stainless steel
  Ground Isolation Protection
- **Mounting**: Panel, wall, desktop, VESA arm, or 19” rackmount with optional mounting kit
- **Power Input**: Phoenix Jack: 24 VDC input
  DC Jack: external 57 W power adapter, with 100 ~ 240 VAC input and 12 VDC @ 4.75 A output
- **Power Consumption**: 12W
- **Video Port**: VGA & DVI-D Port
- **Weight (Net)**: 7.73 kg (17.04 lbs)

LCD Display
- **Display Type**: XGA TFT LCD
- **Backlight Type**: LED
- **Display Size**: 15”
- **Max. Resolution**: 1024 x 768
- **Max. Color**: 16.2M (RGB 8-bits) or 262k colors (RGB 6-bits)
- **Viewing Angle (H/V°)**: 125/140
- **Luminance (cd/m²)**: 1000
- **Backlight Life (hrs)**: 50,000
- **Contrast Ratio**: 600:1

Features
- 15” XGA 1000 nits LED backlight
- Robust anodized coated aluminum front bezel and stainless steel rear cover
- Supports wide operating temperatures
- Increase reliability by enhanced 5-wire resistive touch sensor
- Anti-reflective screen with tempered glass
- Full enclosure ground isolation protection
- Supports VGA/DVI input, dual touch interfaces and two power inputs
- Front lockable OSD membrane keys with user-defined brightness setting
- Front panel is NEMA4/IP65 compliant
- Supports panel, VESA, wall and desktop stand mounting

Touchscreen (Optional)
- **Sensor**: AMT
- **Driver**: Penmount 6000
- **Type**: 5-wire resistive with enhanced ITO film
- **Interface**: USB & RS-232 (Combo)
- **Lifespan**: 36 million with a silicone rubber R8 finger, writing rate is by 250g at 2 times/s
- **Light Transmission**: > 80%
- **OS Support**: Windows 2000, XP, Vista, 7, XPe, CE and Linux
- **Power Consumption**: +5 V @ 100 mA
- **Touch Resolution**: Linearity

Environment
- **Operation Temperature**: -20 – 60°C (-4 – 140°F)
- **Storage Temperature**: -30 – 80°C (-22 – 176°F)
- **Humidity (Storage)**: 10 – 95% non-condensing
- **Waterproof**: Front panel is NEMA4/IP65 compliant
- **Shock**: 11ms, 10G (Non Operating, Half Sine Wave)
- **Vibration**: 5 – 500 Hz, 1 Grms (Operating, Random)

Ordering Information
- **FPM-3151SR-R3AE**: 15” XGA Ind. Monitor w/ Sunlight Readable Display
**FPM-3151SR**

**Dimensions**

Dimensions Unit: [mm]

```
Dimensions          854 [33.46]  412 [16.22]  570 [22.44]  42.00 [1.66]
Dimensions          70.00 [2.76]  360.00 [14.17]
Dimensions          422.00 [16.61]  70.00 [2.76]  10.00 [0.39]
Dimensions          390.00 [15.35]  290.00 [11.42]  100.00 [3.94]  75.00 [2.95]
```

Panel Cut-out Dimensions: 396 x 296 mm (15.59” x 11.65”)

**Accessories**

- FPM-3151G-RMKE  Mounting kit for 19” industrial rack
- 1702002600  Power Cable US Plug 1.8 M
- 1702002605  Power Cable EU Plug 1.8 M
- 1702031801  Power Cable UK Plug 1.8 M
- 1702031836  Power Cable China/Australia Plug 1.8 M

**I/O View**

- 24 Vdc Input
- 100 – 240 Vac Power Adapter
- VGA Port
- DVI-D
- Touch Screen (USB)
- Touch Screen (RS-232)
- 100 ~ 240 VAC Power Adapter
- 24 VDC Input
Introduction

To satisfy the stringent standards required in food, beverage, clinical, chemical or pharmaceutical applications, Advantech offers the IPPC-8151S designed with 316L stainless steel, food-safe sealing materials and an anti-corrosive and chemical resistant touchscreen. Its fanless design and NEMA4X/IP66 waterproof and dustproof protection can ensure reliable operation in most hazardous environments. With the optional enclosure kit and IP66 I/O connector kit, IPPC-8151S can provide a fully enclosed IP66 protection for all sides. In addition to the standard panel mounting, IPPC-8151S can be VESA mounted with an optional enclosure kit. Also, if desk, wall or ceiling mounting is required, an optional stand kit that provides full 360° rotation can be ordered along with the enclosure kit.

Specifications

General
- BIOS: Award 4MB Flash BIOS
- Certifications: UL, CE, FCC Class A, CCC, BSMI
- Enclosure: Fanless with 316L stainless steel
- Dimensions (W x H x D): 400.00 x 313.6 x 90.44 mm (15.75" x 12.35" x 3.55")
- OS Support: Windows 2000, XP Professional and WinXPe
- Power Input: 10 ~ 30 VDC, 18A
- Power Output: +3.3 V @ 8 A, +5 V @ 10 A, -12 V @ 4 A, +5 Vsb @ 0.75 A, -12 V @ 1 A
- Power Supply: 85 W
- Weight (Gross): 12 Kg (26.45 lbs)

System Hardware
- CPU: Intel Celeron M 1.06GHz 1MB L2 on board
- Chipset: Intel 945GME
- Memory: 1GB SO-DIMM DDR2 200pin 667MHz (Supports 4GB Maximum)
- LAN: 10/100/1000Base-T Ethernet x 2
- Expansion: 1 x half-length PCI Slot
- Storage: 1 x SATA HDD interface (2.5" HDD bay)
- I/Os: 3 x RS-232, 4 x USB 2.0, 2 x PS2 (Keyboard, Mouse), 1 x VGA Port, Mic-in, Line-in, Line-out

LCD Display
- Backlight Life: 50,000 hrs
- Contrast Ratio: 700:1
- Display Size: 15"
- Display Type: XGA TFT LCD
- Luminance: 350 cd/m²
- Max. Colors: 262,144
- Max. Resolution: 1024 x 768
- Viewing Angle (H/V°): 140/125

Touchscreen
- Lifespan: 10 millions times touch at single point
- Light Transmission: >80%
- Type: Analog resistive 5-wire

Environment
- Humidity: 5 ~ 85% @ 40°C (non-condensing)
- Ingress Protection: Front panel: NEMA 4X / IP66
- Operating Temperature: 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature: -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection: 5 ~ 500 Hz, 1Grms random vibration

Ordering Information
- IPPC-8151S-R0AE: 15” Stainless Panel PC, Celeron M, 1GHz, TS
- IPPC-8151S-EMKE: IPPC-8151S all-around IP66 enclosure kit
- IPPC-8151S-SMKE: IPPC-8151S kit for desk, wall and ceiling mounting
- IPPC-8151S-IMKE: IPPC-8151S IP66 I/O connector kit
Dimensions

Panel Cut-out Dimensions: 388 x 301.5 mm (15.3" x 11.8")

I/O View

Mounting Kit

All-around IP66 Enclosure Kit

I/O Connector Kit
## FPM Accessories

<table>
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<th>Description</th>
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<td>FPM-5191G Stand Kit</td>
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<td>FPM-5151G-SMKE</td>
<td>FPM-5151G / FPM-5171G Stand Kit</td>
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<tr>
<td>FPM-2150G-SMKE</td>
<td>FPM-2150G Stand Kit</td>
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<td>IPPC-6192A/FPM-5191G Rack Mount Kit</td>
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<td>IPPC-6172A/FPM-5171G Rack Mount Kit</td>
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<td>IPPC-6152A-RMKE</td>
<td>IPPC-6152A/FPM-5151G Rack Mount Kit</td>
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<td>FPM-3150G-RMKE</td>
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<tr>
<td>FPM-3060G-VMKE</td>
<td>FPM-3060G VESA-Mount Kit</td>
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<td>Ind. DC to DC w/24-48 Vdc 1.4-2.9A Input 12 Vdc 5A Output</td>
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