SW-PIX-HAZ Industrial Workstation for Hazardous Locations

DYNICS SW-PIX-HAZ Workstations are industrial widescreen panel PCs with your choice of motherboard, processor, expansion slot (0, 1 or 2), RAM, storage, and operating systems. These custom NEMA 4 / NEMA 4X rated configurations make the SW-PIX-HAZ an ideal solution for use in Hazardous Location applications.

- Class I Division 2, Class II Division 2, & Class III Approved
- UL, cUL, & CE Certified
- 55°C Max Operating Temp
- Analog Resistive Touchscreen or Protective Polycarbonate Lens
- 100~240VAC / 24VDC
- 2.5” SATA SSD and HDD Options
- 0 / 1 / 2 Slots (Half-Size Cards)
- NEMA 4 / NEMA 4X Panel Mount
- 24-Month Warranty

### DISPLAY SPECIFICATIONS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>15.6”</th>
<th>18.5”</th>
<th>21.5”</th>
<th>24”</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESOLUTION</td>
<td>FHD 1920 x 1080</td>
<td>FHD 1920 x 1080</td>
<td>FHD 1920 x 1080</td>
<td>FHD 1920 x 1080</td>
</tr>
<tr>
<td>V: -80°/+70°</td>
<td>V: -85°/+85°</td>
<td>V: -89°/+89°</td>
<td>V: -89°/+89°</td>
<td></td>
</tr>
<tr>
<td>CONTRAST</td>
<td>700:1</td>
<td>1000:1</td>
<td>5000:1</td>
<td>3000:1</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>400 nits</td>
<td>350 nits</td>
<td>300 nits</td>
<td>300 nits</td>
</tr>
<tr>
<td>ASPECT RATIO</td>
<td>16:9</td>
<td>16:9</td>
<td>16:9</td>
<td>16:9</td>
</tr>
<tr>
<td>LENS</td>
<td>5-Wire Analog Resistive Touch Screen / Protective Polycarbonate Lens (Non-Touch)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD LIFE</td>
<td>50,000 Hour Backlight Half-Life</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENCLOSURE</td>
<td>NEMA 4 Powder Coat Finish (Black) / NEMA 4X Stainless Steel.</td>
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</tbody>
</table>
## Workstation Specifications

### Computer I/O

<table>
<thead>
<tr>
<th></th>
<th>Mini-ITX Q170</th>
<th>Mini-ITX Q370</th>
</tr>
</thead>
<tbody>
<tr>
<td>1Gb Ethernet Port</td>
<td>1x</td>
<td>1x</td>
</tr>
<tr>
<td>(Supporting Intel® AMT)</td>
<td>1x</td>
<td>1x</td>
</tr>
<tr>
<td>1Gb Ethernet Port</td>
<td>1x</td>
<td>1x</td>
</tr>
<tr>
<td>RS232/422/485 Ports</td>
<td>4x</td>
<td>4x</td>
</tr>
<tr>
<td>USB 3.0 Ports</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>USB 2.0 Ports</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>PS/2 Port</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>DisplayPorts V1.2</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>Audio Jacks</td>
<td>2x</td>
<td>2x</td>
</tr>
</tbody>
</table>

### CPU / CPU Speed

- 6th Gen Quad Core™ i5-6500TE, up to 3.3 GHz, 6MB Cache
- 8th Gen Hexa Core™ i5-8500T, up to 3.5 GHz, 9MB Cache
- 6th Gen Quad Core™ i7-6700TE, up to 3.4 GHz, 8MB Cache
- 8th Gen Hexa Core™ i7-8700T, up to 4.0 GHz, 12MB Cache

### Memory

- Up to 32GB DDR4

### Expansion Slots

- PIX0: No PCI Slot Panel PC Module
- PIX1: 1 PCI Slot Panel PC Module
- PIXE: 1 PCIe x16 Slot Panel PC Module
- PIX2: 2 PCI Slot Panel PC Module
- PIX1E: 1 PCI + PCIe x16 Slot Panel PC Module

### Storage

- 240GB - 2TB SATA SSD / 1TB HDD (RAID Option Available)

### Operating System

- Windows® 7 Professional (64-bit) (Q170 only)
- Windows® Embedded Standard 7 (64-bit) (Q170 only)
- Windows® 10 Enterprise IoT LTSC 2019 (64-bit)
- Windows® 10 Enterprise IoT LTSC 2016 (64-bit)
- Linux Ubuntu

### Power Entry

- 100~240 VAC, 2.0 Amp / 24 VDC, 7.0 Amp (3-Pin Power Entry approved for Hazardous Locations)

### Temperature

- Operating: 0° - 55°C (32° - 131°F) | Non-Operating: -25° - 60°C (-13° - 140°F)

### Relative Humidity

- Non-Condensing: 20% - 80%

### Shock Resistance

- Operating: 10G | Non-Operating: 15G

### Vibration

- Operating: 1.0G from 5-2000Hz | Non-Operating: 2.5G from 57-2000Hz

### Compliance

- USA: UL 121201 (UL Listed), UL 61010-1 (UL Listed), UL 61010-2-201 (UL Listed), FCC 47 CFR Part 15, Class A
- Canada: CSA C22.2 No. 213 (cUL Listed), CSA C22.2 No. 61010-1-12 (cUL Listed), CSA C22.2 No. 61010-1-12 (cUL Listed), IEC 61010-1 (UL CB), IEC 61010-1-201 (UL CB)
- European Union CE: EN 50581 (RoHS), EN 61326-1 (CISPR 11, Group 1, Class A), EN 61010-1, EN 61010-2-201
- International: IEC 61010-1-1 (UL CB), IEC 61010-2-201 (UL CB)

### Hazardous Locations Details

- Class I Division 2, Groups A, B, C, and D, Class II Division 2, Groups F and G, and Class III
- Temp Code: T4A

### Warranty

- 24-Month limited warranty. Extended warranty available, contact DYNICS for more details

**Note:** Must be installed in an enclosure suitable for the environment, such that the equipment is only accessible with the use of a tool. Also requires applicable wiring standards for the application to be certified. Consult local codes for details and requirements.
### INDUSTRIAL WORKSTATION FOR HAZARDOUS LOCATIONS

**SW-PIX-HAZ**

### Dimensions, Weight, and Power Consumption

<table>
<thead>
<tr>
<th></th>
<th>15.6”</th>
<th>18.5”</th>
<th>21.5”</th>
<th>24”</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEIGHT</strong> (Bezel)</td>
<td>12.2” (310.0mm)</td>
<td>13.3” (337.0mm)</td>
<td>15.0” (380.0mm)</td>
<td>15.5” (393.7mm)</td>
</tr>
<tr>
<td><strong>WIDTH</strong> (Bezel)</td>
<td>16.3” (415.0mm)</td>
<td>19.0” (483.0mm)</td>
<td>22.0” (559.9mm)</td>
<td>24.6” (625.9mm)</td>
</tr>
<tr>
<td><strong>HEIGHT</strong> (Cutout)</td>
<td>11.4” (289.9mm)</td>
<td>12.5” (318.0mm)</td>
<td>14.2” (361.0mm)</td>
<td>14.4” (364.5mm)</td>
</tr>
<tr>
<td><strong>WIDTH</strong> (Cutout)</td>
<td>15.6” (394.9mm)</td>
<td>18.3” (464.0mm)</td>
<td>21.3” (542.0mm)</td>
<td>23.5” (596.6mm)</td>
</tr>
<tr>
<td><strong>PIX0</strong></td>
<td>3.7” (94.0mm)</td>
<td>3.9” (100.4mm)</td>
<td>3.9” (100.4mm)</td>
<td>4.0” (102.2mm)</td>
</tr>
<tr>
<td><strong>PIX1</strong></td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
</tr>
<tr>
<td><strong>PIX2</strong></td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
</tr>
<tr>
<td><strong>PIX3</strong></td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
<td>5.5” (139.7mm)</td>
</tr>
<tr>
<td><strong>PIX1E</strong></td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
<td>6.6” (167.6mm)</td>
</tr>
<tr>
<td><strong>PIX0</strong></td>
<td>23 lbs. (10.4kg)*</td>
<td>24 lbs. (10.9kg)*</td>
<td>28 lbs. (12.7kg)*</td>
<td>33 lbs. (15.0kg)*</td>
</tr>
<tr>
<td><strong>PIX1</strong></td>
<td>26 lbs. (11.8kg)*</td>
<td>27 lbs. (12.3kg)*</td>
<td>31 lbs. (14.0)*</td>
<td>36 lbs. (16.4kg)*</td>
</tr>
<tr>
<td><strong>PIX2</strong></td>
<td>34 lbs. (15.4kg)*</td>
<td>35 lbs. (15.9kg)*</td>
<td>39 lbs. (17.7kg)*</td>
<td>44 lbs. (20.0kg)*</td>
</tr>
<tr>
<td><strong>PIX3</strong></td>
<td>26 lbs. (11.8kg)*</td>
<td>27 lbs. (12.3kg)*</td>
<td>31 lbs. (14.0kg)*</td>
<td>36 lbs. (16.4kg)*</td>
</tr>
<tr>
<td><strong>PIX1E</strong></td>
<td>34 lbs. (15.4kg)*</td>
<td>35 lbs. (15.9kg)*</td>
<td>39 lbs. (17.7kg)*</td>
<td>44 lbs. (20.0kg)*</td>
</tr>
<tr>
<td><strong>MINI-ITX Q170</strong></td>
<td>80 Watts**</td>
<td>90 Watts**</td>
<td>100 Watts**</td>
<td>115 Watts**</td>
</tr>
<tr>
<td><strong>MINI-ITX Q370</strong></td>
<td>110 Watts**</td>
<td>120 Watts**</td>
<td>130 Watts**</td>
<td>150 Watts**</td>
</tr>
</tbody>
</table>

* Weights are approximate, contact DYNICS for details.

** Power consumption is based on maximum ratings; actual ratings vary significantly based on components used.

*** Depth Dimension is from rear of bezel. For overall dimensions; add 0.25” (6.4mm) for aluminum bezel or 0.13” (3.3mm) for stainless steel bezel.

### Mechanical Drawings

**Front View**

**Side and I/O View (PIX0)**

**Side and I/O View (PIX1/PIX1E)**

**Side and I/O View (PIX2)**

### Back View

All measurements are in inches and pounds, unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options. DYNICS reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice.
MARKING DETAILS

Ind. Cont. Eq.

CE

UL US LISTED
Dynics, Inc.
620 Technology Dr.
Ann Arbor, MI, 48108 USA

For Use on a Flat Surface of a Type 1, 4, 4x, or 12 Enclosure
Class I, Division 2, Groups A, B, C, and D Class II, Division 2, Groups F and G, and Class III Hazardous Locations; T4A
Surrounding Air Temp: 0C to +55C
Power rating is maximum for series. For actual power rating see datasheet.
Made in the USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This ISM device complies with Canadian ICES-001.
Cet appareil ISM est conforme à la norme NMB-001 du Canada.

POWER ENTRY OPTIONS

AC INPUT (-HA)

1 2 3
PIN 1: L
PIN 2: (Chassis GND)
PIN 3: N

Note: Red keys prevent inadvertent substitution of AC and DC plugs.

DC INPUT (-HD)

1 2 3
PIN 1: V+
PIN 2: (Chassis GND)
PIN 3: V-

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