

# SW-PIX

## Datasheet

### SW-PIX | Industrial Panel PC

DYNICS SW-PIX is a wide industrial display panel PC with your choice of motherboard, built in a NEMA 4/4X enclosure. Designed to be a viable drop-in replacement for industrial HMI solutions.

#### Key Features

- Half-Size PCI Cards
- 100~240VAC / 24VDC
- UL Listed (QM77 / Q170)

#### Display Specifications

Size:	Resolution:	View Angle:	Contrast:	Brightness:	Aspect Ratio:
15.6"	FHD 1920 x 1080	H: -80°/+80°, V: -80°/+80°	800:1	600 nits	16:9
18.5"	FHD 1920 x 1080	H: -85°/+85°, V: -85°/+85°	1500:1	400 nits	16:9
21.5"	FHD 1920 x 1080	H: -89°/+89°, V: -89°/+89°	5000:1	300 nits	16:9
24"	FHD 1920 x 1080	H: -89°/+89°, V: -89°/+89°	3000:1	300 nits	16:9
<b>Lens</b>	5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch)				
<b>LCD Life</b>	50,000 Hour Backlight Half-Life				
<b>Enclosure</b>	NEMA 4 Powder Coat Finish / NEMA 4X Stainless Steel Food Grade				

#### PC Specifications

Motherboard:	MINI-ITX QM77 (UL Listed)	MINI-ITX Q170 (UL Listed)	MINI-ITX Braswell
<b>I/O</b>	1x 1Gb Ethernet Port (Supporting Intel® AMT) 1x 1Gb Ethernet Port 2x RS232/422/485 Ports 2x USB 3.0 Ports 4x USB 2.0 Ports 1x PS/2 Port (Keyboard/Mouse) 1x DVI-I Port 1x HDMI Port 1x DisplayPort 3x Audio Jacks (Mic-In/Line-In/Line-Out)	1x 1Gb Ethernet Port (Supporting Intel® AMT) 1x 1Gb Ethernet Port 2x RS232 Ports 4x USB 3.0 Ports 4x USB 2.0 Ports 2x PS/2 Ports (Keyboard & Mouse) 1x DVI-D Port 2x DisplayPorts V1.2 2x Audio Jacks (Mic-In/Line-Out)	2x 1Gb Ethernet Ports 2x USB 3.0 Ports 1x RS232/422/485 Port 1x DVI-D Port 1x DisplayPort 2x Audio Jacks (Mic-In/Line-Out)
<b>CPU</b>	3 <sup>rd</sup> Gen Intel® Core™ i5 3610ME / i7 3610QE	6 <sup>th</sup> Gen Intel® Core™ i5 6500TE / i7 6700TE	Braswell N3160
<b>CPU Speed</b>	i5 – 2.7GHz Base, 3.3GHz Turbo (2 Cores, 4 Threads) i7 – 2.3GHz Base, 3.3GHz Turbo (4 Cores, 8 Threads)	i5 – 2.3GHz Base, 3.3GHz Turbo (4 Cores, 4 Threads) i7 – 2.4GHz Base, 3.4GHz Turbo (4 Cores, 8 Threads)	1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads)
<b>Memory</b>	Up to 16GB DDR3 (32-bit OS Limits Memory to 4GB)	Up to 32GB DDR4	Up to 8GB DDR3
<b>Power Supply</b>	100~240VAC / 24VDC Power Entry		
<b>Storage</b>	240GB – 2TB SATA SSD and 1TB HDD		
<b>Operating System</b>	<b>QM77</b> - Windows® Embedded Standard 2009 (32-bit)	<b>Q170 / Braswell</b> - Windows® 7 Professional (64-bit) - Windows® 7 Embedded Standard (64-bit) - Windows® 10 Enterprise IoT LTSC 2016 (64-bit)	
<b>Temperature</b>	Operating: 0° - 50°C (32° - 122°F) Non-Operating: -25° - 60°C (-13° - 140°F)		
<b>Relative Humidity</b>	Non-Condensing: 20% - 80%		
<b>Shock</b>	Operating: 10G Non-Operating: 15G		
<b>Vibration</b>	Operating: 1.0G from 57~2000Hz Non-Operating: 2.5G from 57~2000Hz		
<b>Compliance</b>	USA: UL 60950-1 (UL Listed), FCC 47 CFR Part 15, Class A Canada: CSA C22.2 No. 60950-1-07 (cUL Listed), ICES-001, Group 1, Class A European Union CE: EN 60950-1, EN 61326-1, CISPR 11, Group 1, Class A European Union Directive 2011/65/EU (RoHS)		
<b>Warranty</b>	24-Month limited warranty. Extended warranty available, contact DYNICS for details.		





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### Dimensions, Weights and Power Consumptions

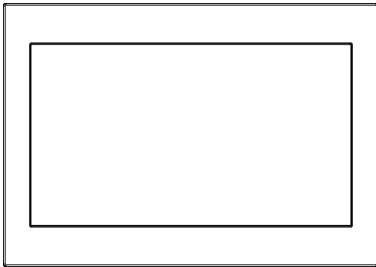
	15"	19"	22"	24"
<b>Height:</b> (Bezel)	12.205" (310.0mm)	13.268" (337.0mm)	14.961" (380.0mm)	15.500" (393.7mm)
<b>Width:</b> (Bezel)	16.339" (415.0mm)	19.016" (483.0mm)	22.047" (559.9mm)	24.640" (625.9mm)
<b>Height:</b> (Cutout)	11.417" (289.9mm)	12.520" (318.0mm)	14.213" (361.0mm)	14.350" (364.5mm)
<b>Width:</b> (Cutout)	15.551" (394.9mm)	18.268" (464.0mm)	21.339" (542.0mm)	23.490" (596.6mm)
<b>Depth:</b>	5.526" (140.4mm)	5.526" (140.4mm)	5.526" (140.4mm)	5.526" (140.4mm)
<b>Weight:</b>	23 lbs.*	25 lbs.*	30 lbs.*	33 lbs.*
<b>Power Consumption:</b>	<b>MINI-ITX QM77</b>	145 Watts**	150 Watts**	165 Watts**
	<b>MINI-ITX Q170</b>	145 Watts**	150 Watts**	165 Watts**
	<b>MINI-ITX Braswell</b>	75 Watts**	85 Watts**	100 Watts**

\*Weights are approximate, contact DYNICS for details.

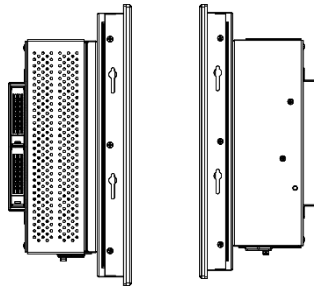
\*\*Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

### Mechanical Drawings

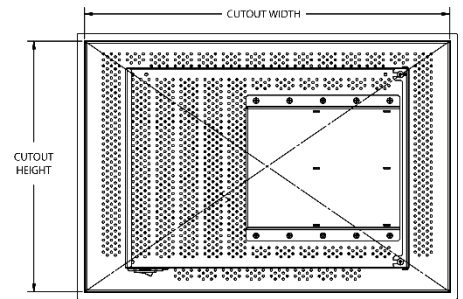
Front View



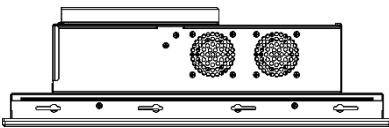
Side View



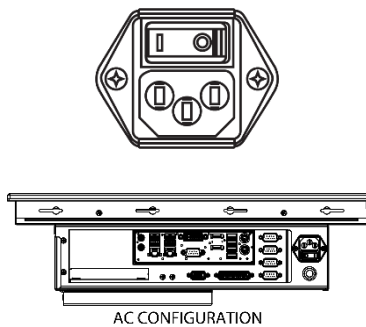
Back View



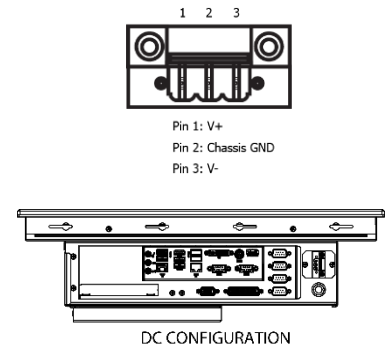
Top View



Power Entry 100~240VAC



Power Entry 24VDC



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.

