



# SW-BTMI

## Datasheet

### SW-BTMI | Industrial Panel PC

DYNICS SW-BTMI is a wide industrial display panel PC equipped with a Braswell quad core processor, built with a NEMA 4/4X bezel in a fan-less chassis with no moving parts. Making it a viable drop-in replacement for industrial HMI solution applications.

#### Key Features

- Fan-less (No Moving Parts)
- 100~240VAC / 24VDC
- UL Listed



#### Display Specifications

Size:	Resolution:	View Angle:	Contrast:	Brightness:	Aspect Ratio:
7"	WVGA 800 x 480	H: -80°/+80°, V: -80°/+80°	800:1	450 nits	5:3
12.1"	WXGA 1280 x 800	H: -80°/+80°, V: -80°/+80°	800:1	450 nits	8:5
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

**Lens** 5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch)

**LCD Life** 50,000 Hour Backlight Half-Life

**Bezel** NEMA 4 Powder Coat Finish – Suitable for mounting on a flat surface of an enclosure rated Type 3R, 3S, 4, 5, and/or 12 (IP66 Self Declared).  
 NEMA 4X Stainless Steel – Suitable for mounting on a flat surface of an enclosure rated Type 3R, 3S, 4, 4X, 5, and/or 12 (IP66 Self Declared). Type 4X indoor use only.

**PC Specifications** 7" 12" / 15" / 19" / 22" / 24"

Motherboard:	3.5" Braswell	3.5" Braswell
<b>I/O</b>	2x 1Gb Ethernet Ports 4x USB 3.0 Ports 1x RS232/422/485 Port 4x RS232 Ports 1x DisplayPort 1x HDMI Port 2x Audio Jacks (Mic-In/Line-Out)	2x 1Gb Ethernet Ports 2x USB 2.0 Ports 4x USB 3.0 Ports 1x RS232/422/485 Port 4x RS232 Ports 1x DisplayPort 1x HDMI Port 2x Audio Jacks (Mic-In/Line-Out)

**CPU** Braswell N3160

**CPU Speed** 1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads)

**Memory** Up to 8GB DDR3

**Power Supply** 24VDC 100~240VAC / 24VDC

**Storage** 128GB mSATA – 3.5" Drive

**Operating System** - Windows® 7 Professional (64-bit) - Windows® 7 Embedded Standard (64-bit)  
- Windows® 10 Enterprise IoT LTSB 2016 (64-bit)

**Temperature** Operating: 0° - 50°C (32° - 122°F) / Non-Operating: -25° - 60°C (-13° - 140°F)

**Relative Humidity** Non-Condensing: 20% - 80%

**Shock** Operating: 10G / Non-Operating: 15G

**Vibration** Operating: 1.0G from 57~2000Hz / Non-Operating: 2.5G from 57~2000Hz

**Compliance** USA: UL Listed, UL 61010-1+UL 61010-2-201, FCC 47CFR Part 15 Class A  
 Canada: cUL Listed, CSA C22.2 No. 61010-1-12+CSA C22.2 No. 61010-2-201, ICES-001, Class A  
 EU: RoHS Directive 2011/65/EU, EN 50581, EMC Directive 2014/30/EU, EN 61326-1, Low Voltage Directive 2014/35/EU, EN 61010-1+EN 61010-2-201

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





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### Dimensions, Weights and Power Consumptions

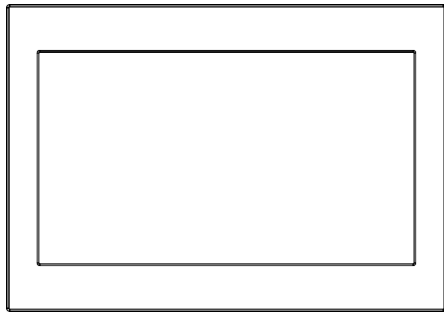
	7"	12"	15"	19"	22"	24"
<b>Height:</b> (Bezel)	6.451" (163.9mm)	9.488" (240.9mm)	12.205" (310.0mm)	13.268" (337.0mm)	14.961" (380.0mm)	15.500" (393.7mm)
<b>Width:</b> (Bezel)	8.656" (219.9mm)	12.992" (329.9mm)	16.339" (415.0mm)	19.016" (483.0mm)	22.047" (559.9mm)	24.640" (625.9mm)
<b>Height:</b> (Cutout)	5.551" (141.0mm)	8.701" (221.0mm)	11.417" (289.9mm)	12.520" (318.0mm)	14.213" (361.0mm)	14.350" (364.5mm)
<b>Width:</b> (Cutout)	7.756" (197.0mm)	12.205" (310.0mm)	15.551" (394.9mm)	18.268" (464.0mm)	21.339" (542.0mm)	23.490" (596.6mm)
<b>Depth:</b>	3.484" (88.5mm)	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)
<b>Weight:</b>	4 lbs.*	10 lbs.*	14 lbs.*	15 lbs.*	20 lbs.*	24 lbs.*
<b>Power Consumption:</b>	<b>7"</b>	<b>12"</b>	<b>15"</b>	<b>19"</b>	<b>22"</b>	<b>24"</b>
<b>Input Current:</b> 100~240VAC (50/60Hz)	N/A	28 Watts** 280mA	33 Watts** 330mA	44 Watts** 440mA	51 Watts** 510mA	58 Watts** 580mA
<b>Input Current:</b> 24VDC	25.1 Watts** 1A	28.4 Watts** 1.2A	32.9 Watts** 1.4A	43.4 Watts** 1.8A	50 Watts** 2.1A	57.3 Watts** 2.4A

\*Weights are approximate, contact DYNICS for details.

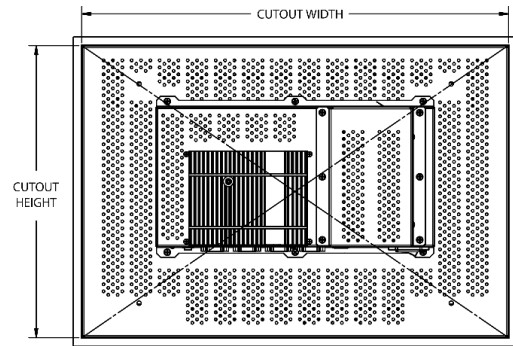
\*\*Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

### Mechanical Drawings

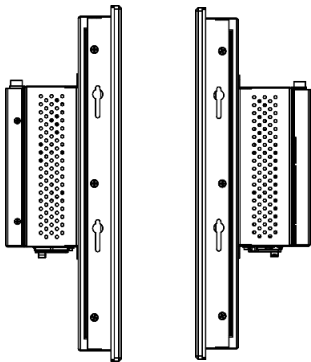
#### Front View



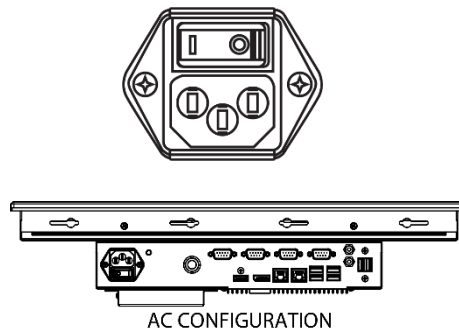
#### Back View



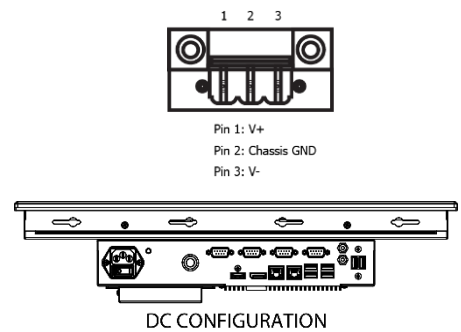
#### Side View



#### 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.

