



PW-BTMI

Datasheet

PW-BTMI | Integrated Panel PC

DYNICS PW-BTMI is a PC-based HMI featuring a powerful and efficient Quad Core Braswell Processor. This versatile unit offers a range of display sizes and various operating systems.

Key Features

- 128GB mSATA Storage
- Fan-less
- Drop-In Replacement for Proprietary Systems
- 100~240VAC / 24VDC
- No Moving Parts



Display Specifications

Size	Resolution	View Angle	Contrast	Brightness	Aspect Ratio
8"	SVGA 800 x 600	H: -80°/+80°, V: -60°/+80°	600:1	450 nits	4:3
10"	SVGA 800 x 600	H: -80°/+80°, V: -80°/+80°	900:1	400 nits	4:3
12"	SVGA 800 x 600	H: -80°/+80°, V: -75°/+65°	700:1	450 nits	4:3
15"	XGA 1024 x 768	H: -80°/+80°, V: -80°/+80°	600:1	350 nits	4:3
17"	SXGA 1280 x 1024	H: -85°/+85°, V: -80°/+80°	1000:1	350 nits	5:4
19"	SXGA 1280 x 1024	H: -85°/+85°, V: -80°/+80°	1000:1	350 nits	5:4
Lens	5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch)				
LCD Life	50,000 Hour Backlight Half-Life				
Enclosure	NEMA 4 Powder Coat Finish / NEMA 4X Stainless Steel				

PC Specifications

Motherboard	3.5" Braswell (8" – 10" DC Only)	3.5" Braswell (12" – 19" AC / DC)
I/O	2x 1Gb Ethernet Ports 4x USB 3.0 Ports 1x RS232/422/485 Port 1x DisplayPort 1x HDMI Port	2x 1Gb Ethernet Ports 4x USB 3.0 Ports 1x RS232/422/485 Port 1x DisplayPort 1x HDMI Port
CPU	Braswell N3160	Braswell N3160
CPU Speed	1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads)	1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads)
Memory	Up to 8GB DDR3	Up to 8GB DDR3
Power Supply	24VDC	100~240VAC / 24VDC
Storage	128GB mSATA Storage	
Operating System	- Windows® 7 Professional (64-bit) - Windows® 7 Embedded Standard (64-bit) - Windows® 10 Professional (64-bit) - Windows® 10 Enterprise IoT LTSC 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	European Union Directive 2011/65/EU (RoHS)	
Warranty	24-Month limited warranty. Extended warranty available, contact DYNICS for details.	





PW-BTMI

Datasheet

Dimensions, Weight and Power Consumption

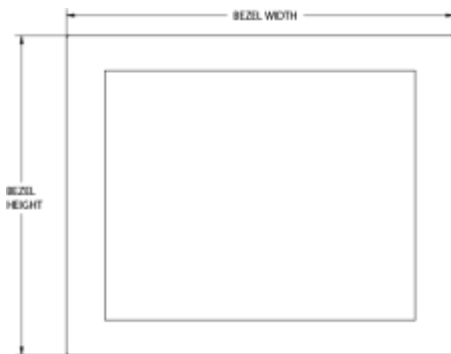
	8"	10"	12"	15"	17"	19"
Height (Bezel)	8.500" (215.9mm)	9.800" (248.9mm)	10.990" (279.1mm)	11.878" (301.7mm)	14.020" (356.1mm)	15.415" (391.5mm)
Width (Bezel)	10.700" (271.8mm)	13.240" (336.3mm)	13.750" (349.3mm)	15.826" (402.0mm)	17.800" (452.1mm)	18.765" (476.6mm)
Height (Cutout)	7.370" (187.2mm)	8.820" (224.0mm)	9.900" (251.5mm)	11.270" (286.3mm)	13.000" (330.2mm)	14.420" (366.3mm)
Width (Cutout)	9.580" (243.3mm)	12.020" (305.3mm)	12.660" (321.6mm)	15.250" (387.4mm)	16.720" (424.7mm)	17.750" (450.9mm)
Depth	3.574" (90.8mm)	3.574" (90.8mm)	3.526" (89.6mm)	3.611" (91.7mm)	3.591" (91.2mm)	3.591" (91.2mm)
Weight	6 lbs.*	8 lbs.*	11 lbs.*	13 lbs.*	17 lbs.*	15 lbs.*
Power Consumption	30 Watts**	30 Watts**	35 Watts**	40 Watts**	50 Watts**	50 Watts**

*Weights are approximate, contact DYNICS for details.

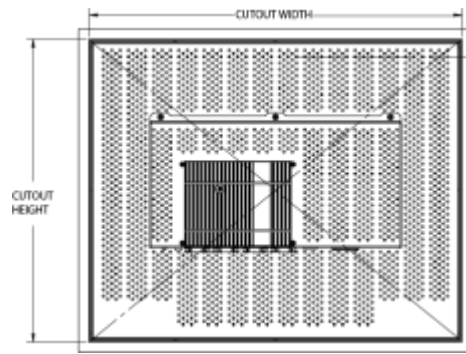
**Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

Mechanical Drawings

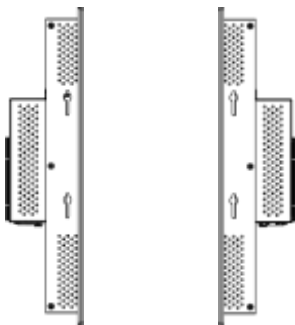
Front View



Back View



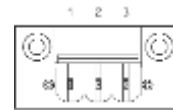
Side View



Power Entry 100~240VAC



Power Entry 24VDC



Pin 1: V+
Pin 2: GND
Pin 3: V-

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.

