



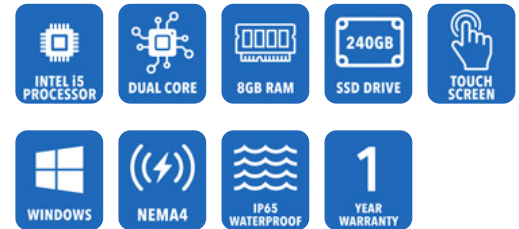
AbraxSys
RUGGED LCD SOLUTIONS

18.5" Industrial Grade FHD 1080P Wide Video Format NEMA 4 (IP65) Touch Screen Panel PC

Model PC2-PM-85

This series of rugged Panel PCs is the ultimate solution for industrial embedded computing and are ideally suited for harsh environments where dust, dirt, moisture, splashing water, hose directed spray, and various other caustic contaminants like oil, chemicals, etc. are commonplace. This advanced series features Standard: Intel 11th Generation Core i5-1145GRE (8M Cache, up to 4.10 GHz), 240GB Solid-State Drive (higher capacity available), 8GB memory (expandable to 32GB), a vast array of I/O and Ethernet ports, Intel's Skylake graphics chipset, solid-state long-life LED backlighting, solid-state storage devices, and exceptional temperature ranges: Operating Temperature: -10°C to 60°C (14°F to 140°F), Storage Temperature: -40°C ~ 75°C (-40°F ~ 167°F).

As well, a multitude of add-on features are available to meet our customer's specific requirements.



Technical Specifications

Computer Specs

CPU

- Intel® Core™ I5-1145GRE
(up to 4.1GHz, quad-core,
8M Cache, TDP: 28/15/12W)
- Tiger Lake 11th generation
Intel Core processors

Chipset

I/O Chipset EC iTE IT8528E

Graphics Chipset

Intel® Iris® Xe Graphics,
12th Generation

Intel's Boost Technology

Max Turbo Frequency of 4.10 GHz

Storage

240GB Solid State
[Optional larger capacity
drives also available]

Memory

8GB expandable to 16GB or 32GB

I/O

- USB:
 - 4xUSB 3.0
 - 4xUSB 2.0
- Com Port:
 - 2 x RS-232/422/485
 - 4 x RS-232 Out
(other ports available, please
let us know what is needed)

Ethernet

- 1 x Intel® I225IT 2.5 Gigabit
Ethernet (LAN2), 1 x Intel® I219LM
Gigabit Ethernet PHY (LAN1),
- 3 x USB3.1 Gen2,
1 x USB 3.1 Gen1 at I/O

Operating System

Windows 10 IOE Enterprise
Operating System
[Optional Win 10 Pro or
Win 11 Pro also available]

General

Model:

PC2-PM-185

Display Size

18.5"

Display Type

Long-Life Industrial Grade LCD

Backlight Technology

Solid State, Long-Life LED,
with Light Source Redundancy

Optical Films Enhancements

Optical Bonding

Brightness

500 nits (cd/m2)

Dimming Capabilities

Optional Full-Range Manual
Turn-Pot, Automatic Dimming
Sensor, Remote Dimming

Contrast Ratio

1000:1

Aspect Ratio

16:9

Resolution

1920 x 1080 (1080p)
True High-Definition

Colors Supported

16.7M (8-bit/color)

Viewing Angles

-88° / 88° Horizontal
-88° / 88° Vertical

Optical Bonding

Optical Bonding

Protective Window

Power Types

90 VAC to 264 VAC, 12V DC, 24V
DC, 9 to 36V DC, 20 to 53V DC

Physical Attributes

Front Bezel

High Grade 6061T Aluminum, Electrochemical Anodized for added Corrosion Resistance, Black Textured Finish per Military Standards FED-STD-595

Rear Enclosure

High Grade 6061T Aluminum, Electrochemical Anodized for added Corrosion Resistance, Black Textured Finish per Military Standards FED-STD-595

Panel Mounting

10-32 Stainless Mounting Studs, 1/2" Exposed Thread

Overall Dimensions

12.834 x 19.504 x 3.0 in
(326.00 x 495.41 x 66mm)

Cutout

11.959 x 18.628 in
(303.76 x 473.16mm)

Weight

See Drawings

Sealability

NEMA 4 (IP65)

Sunlight Readability

Sunlight Readable Model Available

Warranty Period

1 Year

Environmental

Sunlight Readability

Sunlight Readable Model Available

Operating Temperature Range

-20°C to +70°C (158°F)
Extended Operational Temperature Ranges Available

Storage Temperature

-40°C ~ 75°C (-40°F ~ 167°F)

Humidity

5% to 95% RH (non-condensing)

Shock

Operating: 30g's, 11ms, ½ Sine

Vibration

Operating: 1g RMS 20-500Hz

Fasteners

Vibration-proof, self-locking, fastener system which will not loosen regardless of seat torque. Designed to help make products safer, lower warranty costs and prolong equipment life by eliminating vibration; increased safety, reliability, operating life and reduced maintenance.

EMI

FCC Class B pursuant to Part 15 of the FCC Rules

Agency Compliance

CE

Altitude

Operating 0 to 10,000 ft.
Storage 0 to 40,000 ft.

RoHS Compliant

Yes

Rating

NEMA 4 / IP65

Additional Add-On Options

Touch Screen Technology

Resistive

Multi-Touch Up to 10-Point PCAP

Hardened Armored Touch Technology

Power Type Choices:

90 VAC to 264 VAC; 12V DC; 24V DC; 9 to 36V DC; or 20 to 53V DC

Custom Video Modes

Customization Services

Extended Operational Temperature Ranges

Conformal Coating of all Internal Circuit Boards

Private Labeling Services

Optional O/S

Windows 10 PRO or 11 PRO

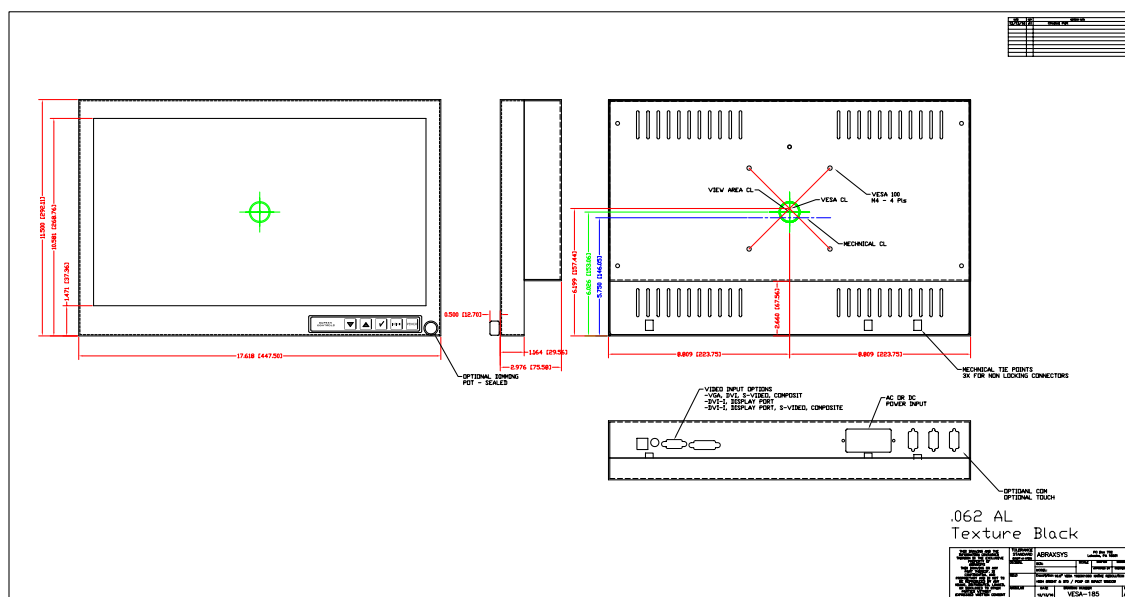
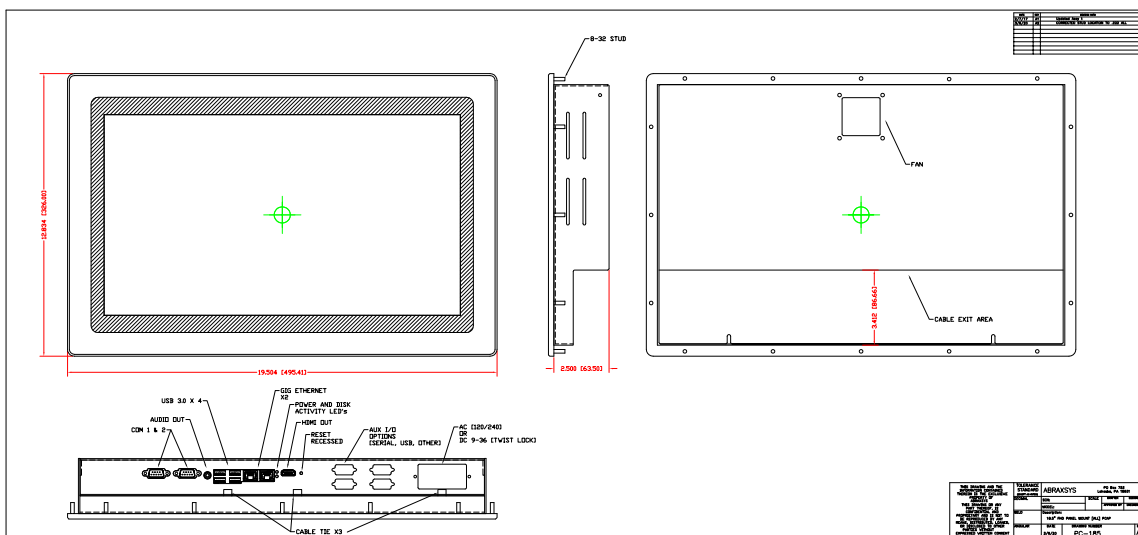
Larger Storage Devices

NEMA 4X IP66 Stainless Steel Front Bezel

Wi-Fi (wireless networking technology)

Sunlight Readability Model

Mechanical Drawings



These technical and mechanical resources are subject to change without notice.



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