



AbraxSys
RUGGED LCD SOLUTIONS

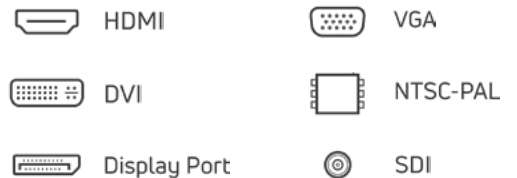
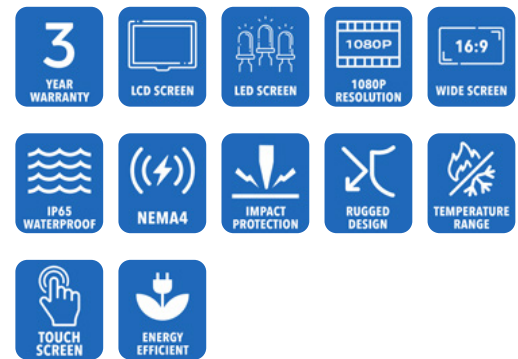
18.5" Panel PC 1080P High Bright Wide Video Format NEMA 4 (IP65) Touch Screen

SPC-PM-185



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

SPC-PM-185

Display Size

18.5"

Display Type

Long-Life Industrial Grade LCD

Brightness

1000 nits (cd/m2)

Dimming Capabilities

Standard, or 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

3mm Hardened Protective Window, for more information [CLICK HERE](#) (also available various optional Touch Screen Technologies)

Power Types

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

NEMA 4 / IP65 Panel Mounting

Overall Dimensions

12.834 x 19.504 x 3 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

3 Years

Environmental

Sunlight Readability

Sunlight Readable Model Available

Operating Temperature Range

-10°C to 60°C (14°F to 140°F)

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

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

Video Input Options

DVI, HD15 (VGA), DisplayPort, HDMI, Composite, S-Video, HD-SDI, and/or NTSC-PAL

Custom Video Modes

Extended Operational Temperature Ranges

Conformal Coating of all Internal Circuit Boards

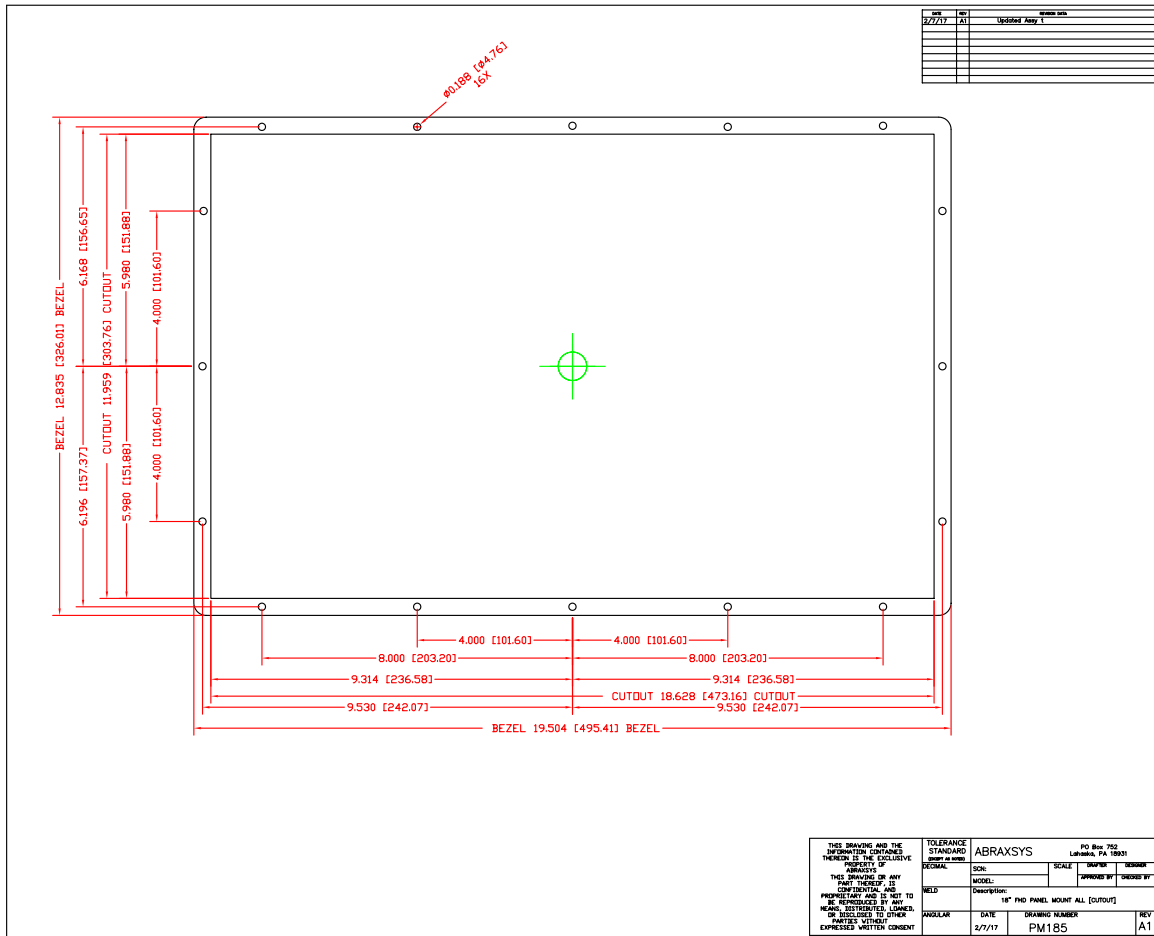
Private Labeling Services

Customization Services

NEMA 4X (IP66) Stainless Steel Front Bezel

Sunlight Readable Model Available

Mechanical Drawings



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



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(800) 883-9050

info@abraxsyscorp.com

www.abraxsyscorp.com

6161 Keller's Church Road, Units 6151B, 6161A, 6161B, 6171A & 6171B
Pipersville, Pennsylvania 18947 U.S.A.