

# INDUSTRIAL PANEL COMPUTER IPC-501 SERIES



Fanless Panel Computer with Intel® 12th Generation 8- Core Processor i3-N305 3.80GHz Max, Supports: 1- HDMI, 1- DisplayPort, 2- 2.5GbE LAN, 6- USB, 2- COM, 1- DIO, WiFi Ready, Wide Voltage 9~36VDC, 15" ~ 23.8" LCD with Resistive or PCAP Touch Screen, Onboard TPM2.0



## SYSTEM SPECIFICATIONS

Front Bezel	IP66, Aluminum frame
LCD Panel Sizes	15" / 15.6" / 17" / 19" / 21.5" / 23.8"
Brightness per panel	350 nits or 1600 nits / 400 nits / 350 nits or 800 nits / 350 nits or 1600 nits / 400nits / 400nits
Resolution per panel	1024 x 768 / 1920 x 1080 / 1280 x 1024 / 1280 x 1024 / 1920 x 1080 / 1920 x 1080
Touch Screen	Resistive or Projective Capacitive
Processor	Intel® i3-N305 3.80GHz Max
Processor Generation	Alder Lake-N™
Processor Cores	8
Memory	Up to 32GB DDR5 SO-DIMM
Storage	1 • M.2 SSD up to 4TB
Chipset	SoC integrated
Graphics	Intel® UHD Graphics
LAN Controller	2 • Intel® I225-V 2.5GbE LAN ports
TPM	Infineon® SLB9672
System I/O	Front 2 • USB 2.0 ports 1 • DIO 1 • Power Button 2 • RS232/422/485 ports 2 • WiFi RP-SMA connectors Rear 4 • USB 3.2 ports (2- Gen2 ports, 2- Gen1 ports) 2 • 2.5GbE LAN Ports 1 • HDMI port 1 • DisplayPort 1 • 3- Pin Terminal Block Power connector 1 • Line-out
BIOS	AMI UEFI
Watchdog Timer	256 levels, 1~255 sec.
Expansion Interface	1 • M.2 B Key 1 • M.2 E Key
System Indicator	1 • blue LED for system power-on (shared) 1 • red LED for SSD active (shared)

## MECHANICAL SPECIFICATIONS

Color	Silver-Blue
Construction	Aluminum extrusion and heavy gauge chassis
Dimensions (W x H x D)	
IPC-501 15"	358.5mm x 281.5mm x 61.5mm (14.11" x 11.08" x 2.42")
IPC-501 15.6"	387.4mm x 242.4mm x 56.5mm (15.25" x 9.54" x 2.22")
IPC-501 17"	392.5mm x 325mm x 60.5mm (15.45" x 12.79" x 2.38")
IPC-501 19"	439.5mm x 364.3mm x 60.5mm (17.30" x 14.34" x 2.38")
IPC-501 21.5"	537.6mm x 329mm x 54.5mm (21.16" x 12.95" x 2.14")
IPC-501 23.8"	596mm x 366mm x 80mm (23.46" x 14.40" x 3.24")
Mounting	VESA mount / Wall mount / Panel mount

## FEATURES

- IP66 rated front bezel with resistive or PCAP touch screen
- LCD Panel Sizes: 15", 15.6", 17", 19", 21.5", 23.8"
- Intel® 12th Generation 4- Core Processor 3.60GHz Max
- High performance 262-pin DDR5 4800 SO-DIMM
- max. up to 32GB
- 2• 2.5GbE Ethernet Ports
- 1• RS232/422/485, 1• RS232, 1• DIO
- 2• 3.2 USB Gen2 ports, 2• 3.2 USB Gen1 port, and 2• 2.0 USB ports
- 1• M.2 SSD up to 4TB
- 1• HDMI port, 1• DisplayPort
- Onboard TPM2.0 (Infineon SLB9672)
- Wide range voltage 9~36VDC
- Highly reliable thermal transfer fanless technology



## POWER SUPPLY

Power Input	9 ~ 36VDC with protection fuse
Power Adapter	110 ~ 240 AC to 12VDC out 60W

## REGULATORY SPECIFICATIONS

Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)
EMI/EMC	CE standards applied (EN 55022 / EN 55024 / EN 55032 / EN 60950-1) FCC 47 CFR Part 15 Subpart B RoHS
Vibration	5~500Hz 1G PTP
Shock	operating: 30G (11ms), non-operating: 40G (11ms)

## ORDERING INFORMATION

Base	IPC-501 Industrial Panel Computer, Intel 12th Generation 8- Core Processor i3-N305 3.8GHz Max, 2- USB 3.2 Ports Gen2 Ports, 2- USB 3.2 Gen1 Ports, 2-USB 2.0 Ports, 2- I225-V 2.5GbE LAN, 1- HDMI Port, 1- DisplayPort, 1-Line out, TPM2.0, 3-Pin Terminal Block with Mate. (Does not include AC Wall Adapter)
IPC-501-__	

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## CONFIGURABLE & ACCESSORIES

Power Connector	3-Pin Terminal Block Connector with Mate
LCD	15" / 15.6" / 17" / 19" / 21.5" / 23.8"
Touch Screen	Projective Capacitive or Resistive
RS232/RS485 Ports	2 • RS232/485 Ports on Front Panel
DIO	1 • DB9 8bit 5V
M.2 B Key	250GB, 500GB, 1TB, 2TB, 4TB
DDR5 SO-DIMM	8GB, 16GB, 32GB
	Intel® 9260 802.11ac/a/b/g/n Wi-Fi / Bluetooth
WiFi module	5.1 M.2 Module
	Intel® AX210 Wi-Fi / 802.11ax/ac Wi-Fi / Bluetooth 5.2 M.2 Module
Panel mount kit	9601340301

## CONFIGURABLE & ACCESSORIES

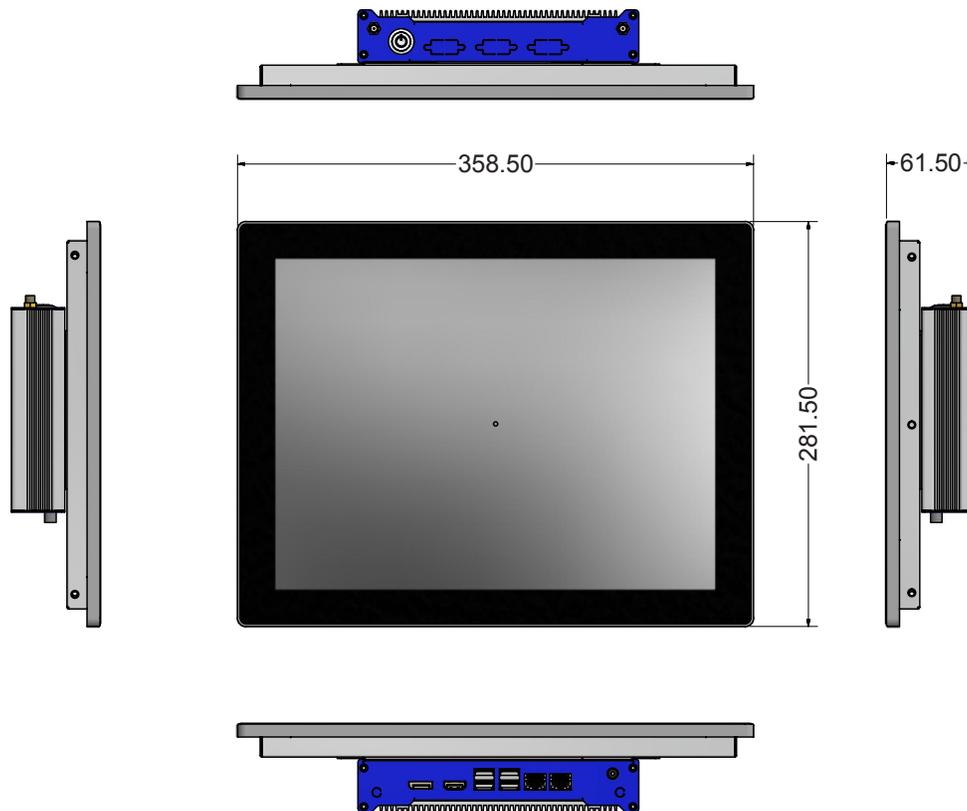
VESA mount kit	VESA2-KIT
Wall mount bracket	6680440721
AC wall adapter	3771030341
	Windows® 10 IoT Enterprise 2021 LTSB Value (i3/i5), Windows® 10 Professional 64bit, Windows® 11 IoT Enterprise 2024 Value High End (i3/i5), Windows® 11 Professional 64bit, Ubuntu® Desktop 22.04 LTS 64bit
Operating System	

## WARRANTY

Standard Warranty	2 Year Warranty
Extended Warranty	TotalCare Protection 3 or 5 Year Extended
Expected Life Cycle	7 Years

## DIMENSIONS

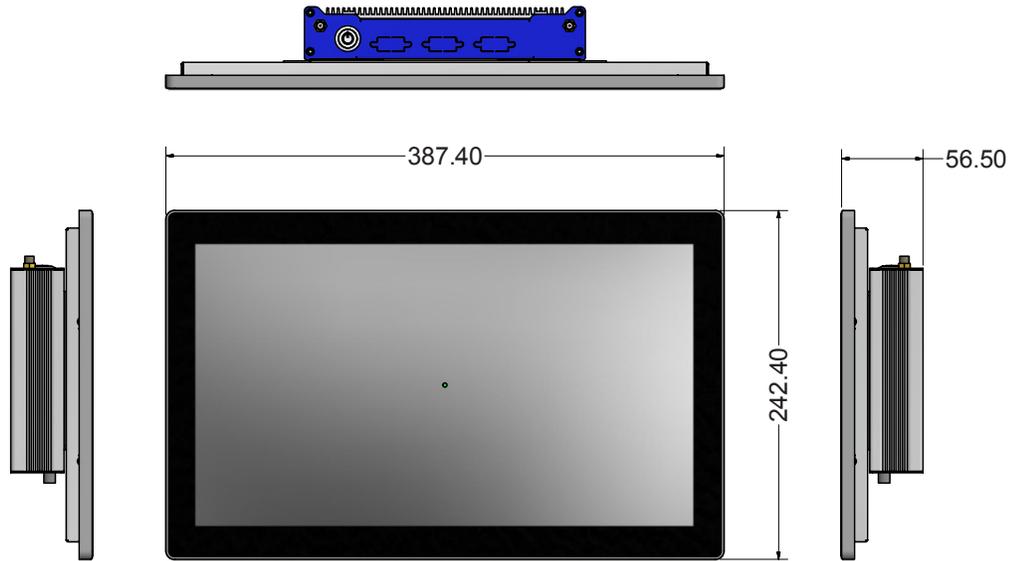
IPC-501 15"



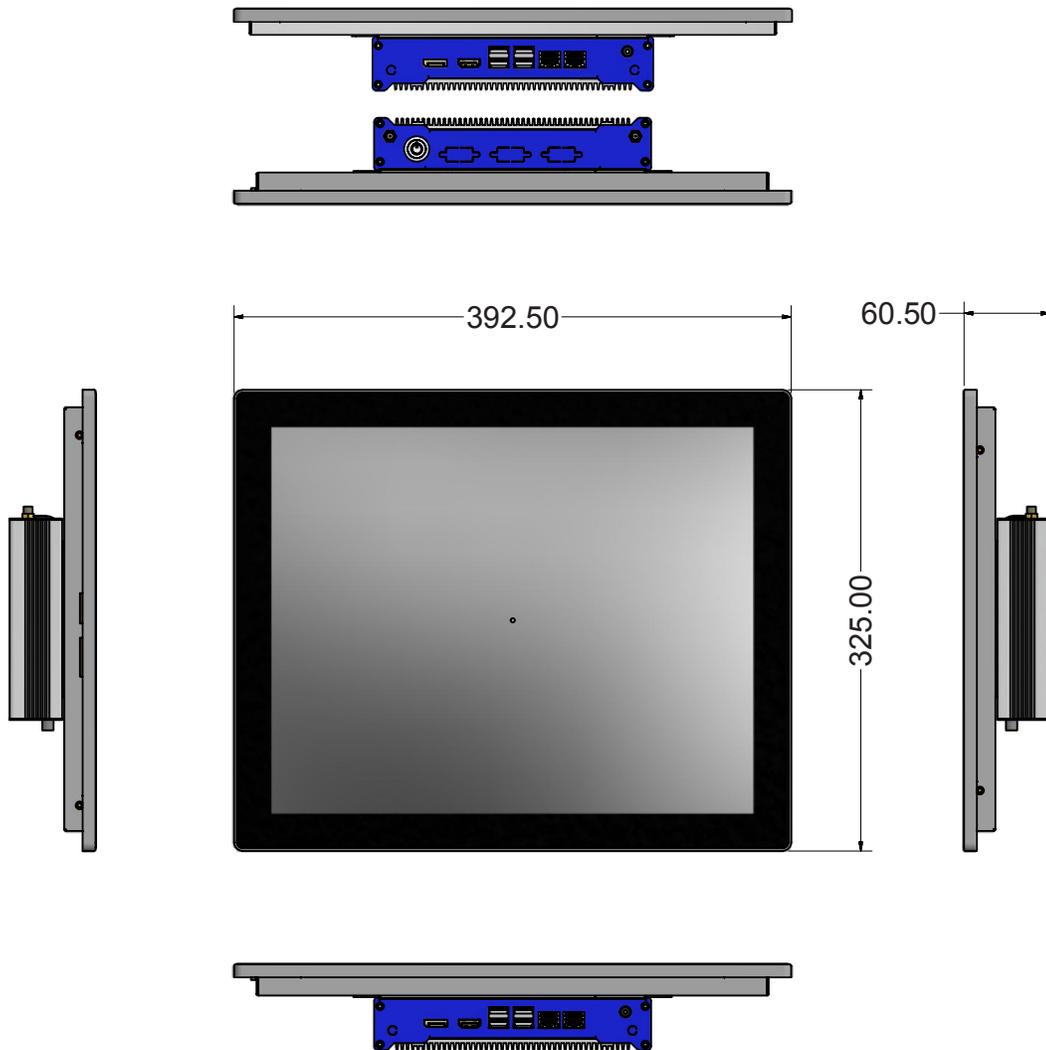
Measurements shown in mm. All dimensions are  $\pm 0.5\text{mm}$

## DIMENSIONS

IPC-501 15.6"



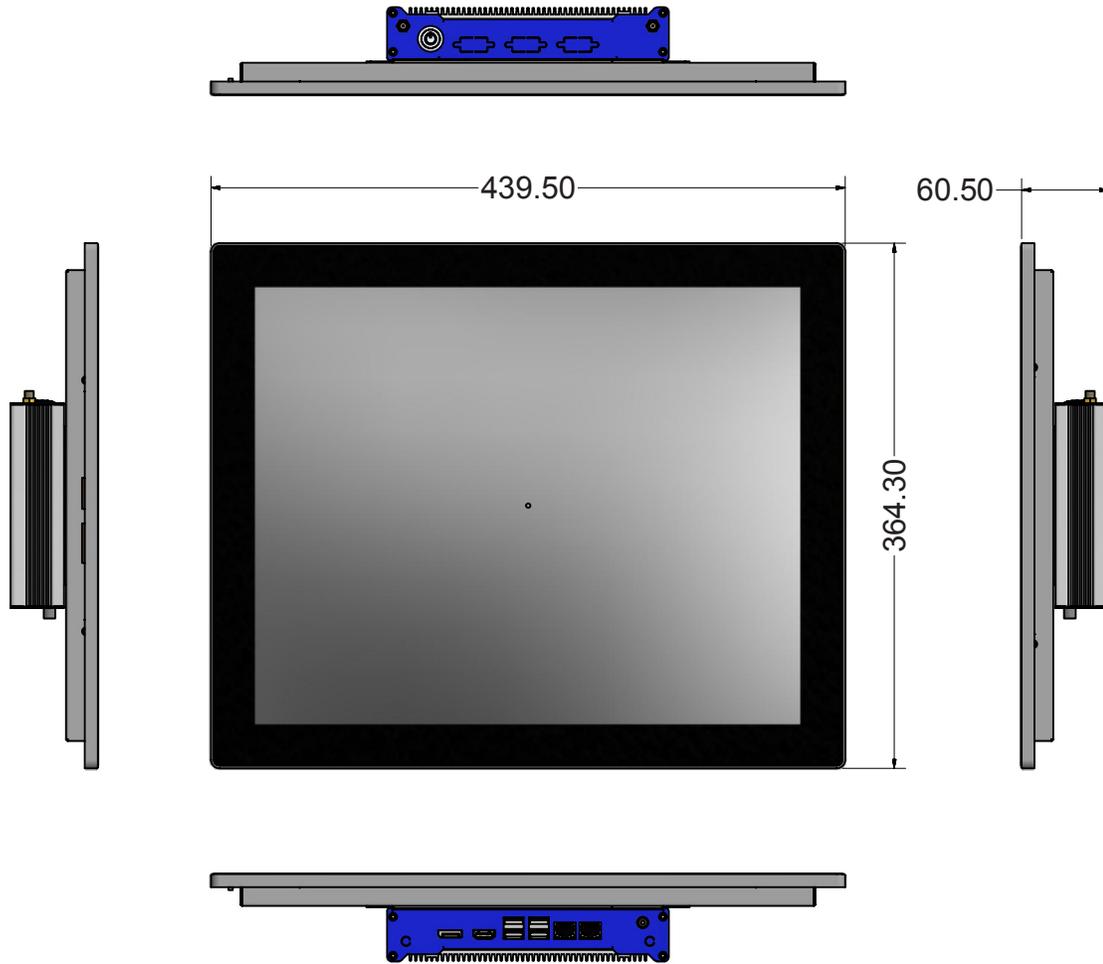
IPC-501 17"



Measurements shown in mm. All dimensions are  $\pm 0.5\text{mm}$

DIMENSIONS

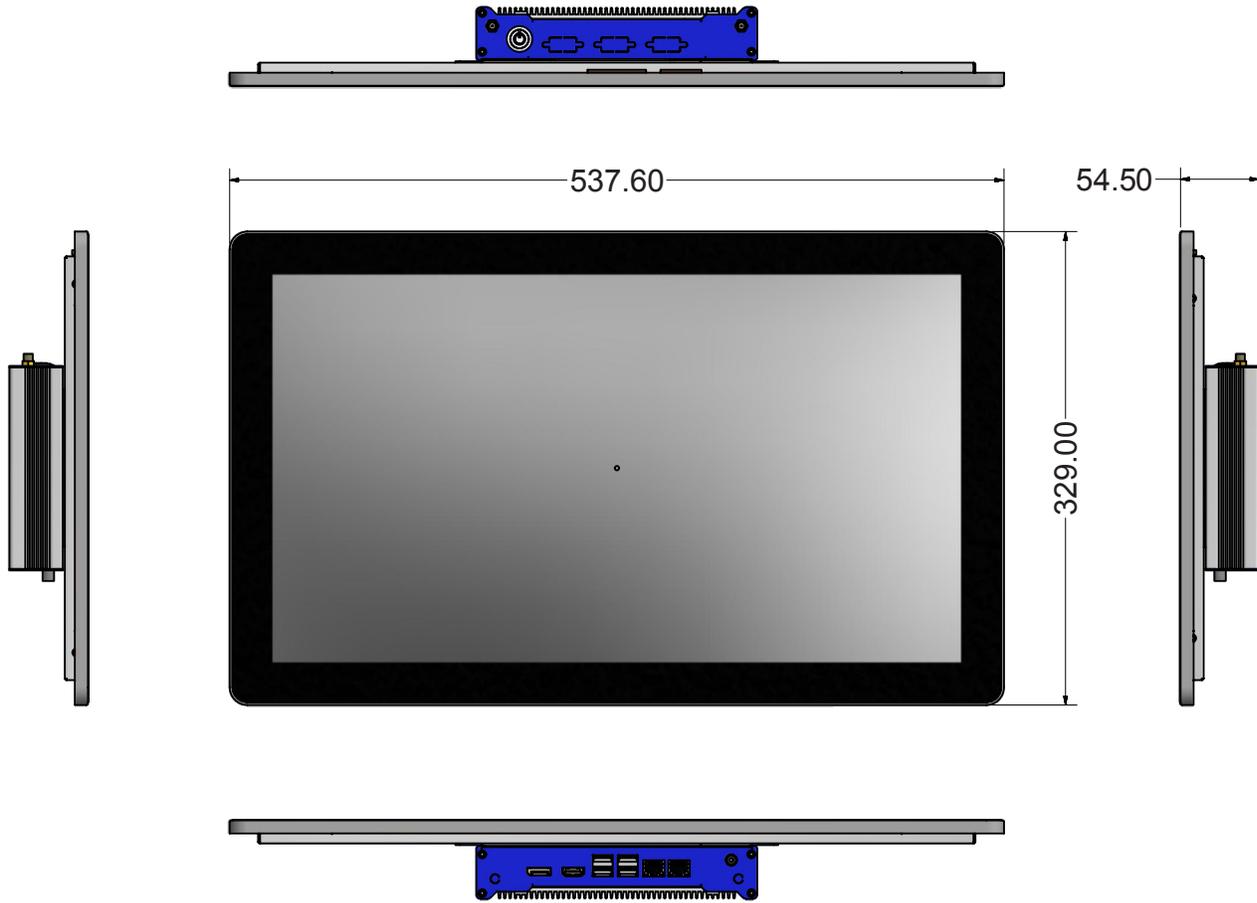
IPC-501 19"



Measurements shown in mm. All dimensions are  $\pm 0.5$ mm

DIMENSIONS

IPC-501 21.5"



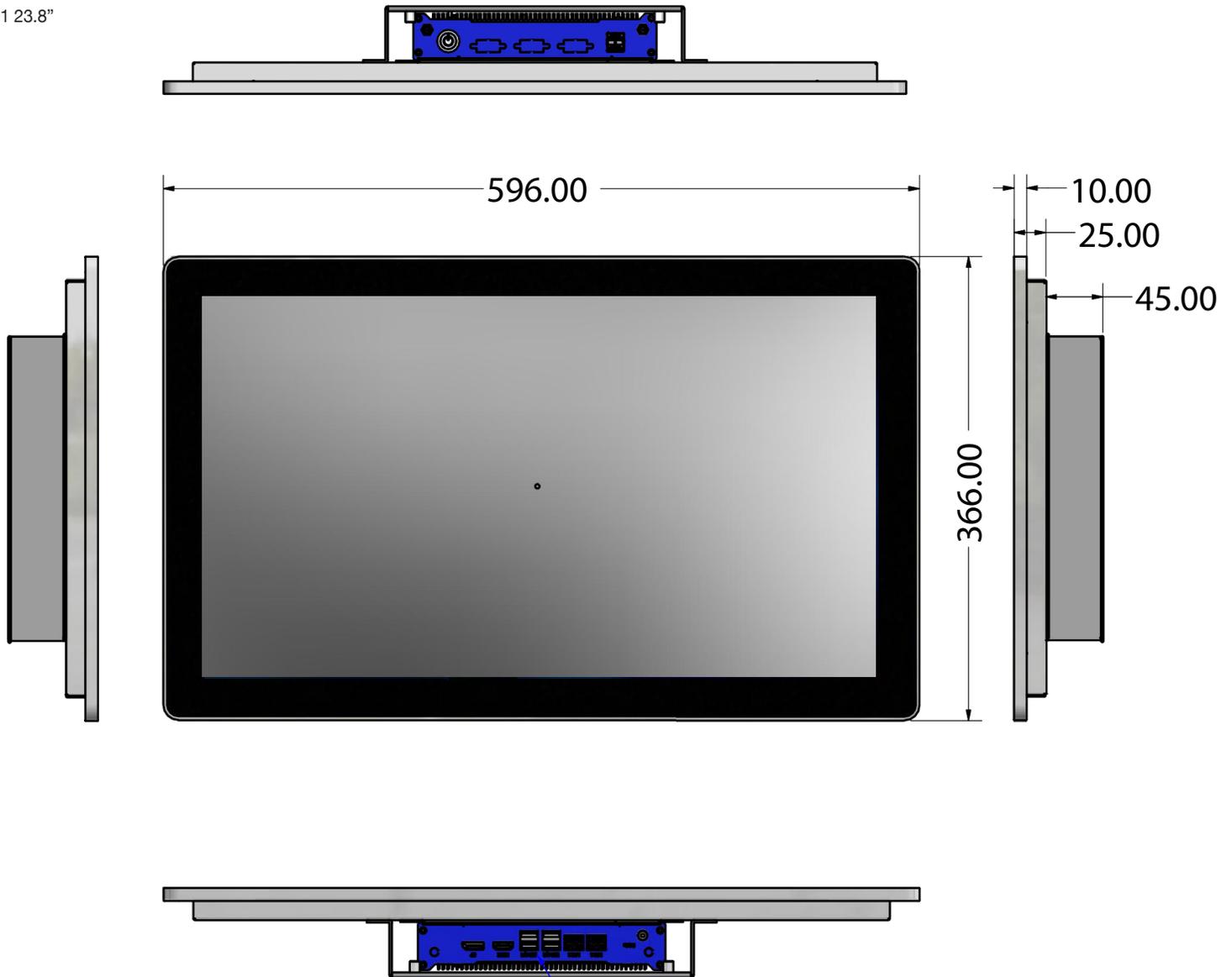
Measurements shown in mm. All dimensions are  $\pm 0.5\text{mm}$

# INDUSTRIAL PANEL COMPUTER IPC-501 SERIES



## DIMENSIONS

IPC-501 23.8"



Measurements shown in mm. All dimensions are  $\pm 0.5\text{mm}$