

# IP65 FRONT All in One PC

43" 1920x1080 Industrial Panel Front IP65 Chassis Design,  
400nits, with JNC8H-H310/i3-8100, RAM 16GB, SSD 512GB,  
100-240VAC power cord, Win 11 Pro 64bit with P-CAP Touch

**MODEL: TPW43-i3-PCAP**



## FEATURES:

- All in one PC Widescreen Display Chassis/VESA Mount
- 43" Industrial Panel / 1920x1080 / 400nits
- Chassis Design / Wall Mount
- P-CAP Touch / Front IP65
- Fan Design
- JNC8H-H310 / i3-8100 ( 6M Cache, up to 3.60GHz, 8th Generation Intel® Core™ i3 Processors ) / RAM 16GB / SSD 512GB
- 100-240VAC Power Cord
- Win 11 Pro 64bit

## SPECIFICATIONS:

<b>Panel</b>	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating
	Aspect Ratio / Size	Wide / 43" viewable diagonal area
	Active Area / Pixel Pitch	942.20(H) x 531.60(V) mm / 0.49005(H)x 0.49005(V)
	Native Resolution / Colors	1920(H) x 1080(V) / 16.7M
	Brightness / Contrast	400 cd/m <sup>2</sup> (typ) / 4000 : 1
	Response Time	< 5 ms
	Viewing Angle (typical)	H.178° (- 89° ~ + 89°) , V. 178° (- 89° ~ + 89°)
	Light Source	LED backlight, Long life, 35,000 hrs (typ)
<b>Power</b>	Power Input	100-240VAC
	Power Consumption	160W ~ 188W
<b>Operating Condition</b>	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)
<b>Dimensions</b>	Physical	Please refer to Drawing
	Carton	W x H x D = TBD

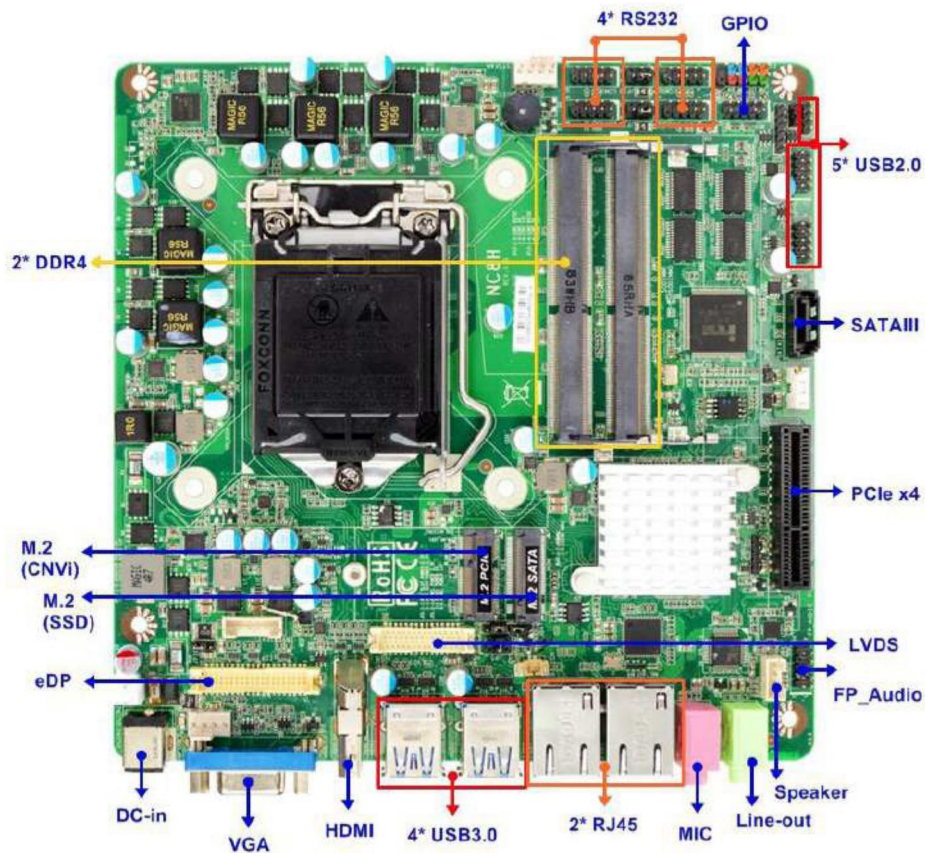
*\*Specifications subject to change without notice, not responsible for typographical errors.*

## MOTHERBOARD SPECIFICATIONS:



- Intel LGA1151 Socket Core 13,15,17 Pentium Processor (Max 65W)
- Intel Coffee Lake-S H310 Chip support 9th CPU
- Support Single Channel DDR4 2133MHz, up to 64GB
- Realtek ALC662VD Audio
- 1\* Intel® 1219-V + 1\* Intel® i211AT GbE
- 1\* SATAIII (6Gb/s) & M.2 (M key 2242)
- HDMI/VGA/EDP (CO-lay LVDS) Output
- 4\* RS232 (COM1/2 Support 5V/12V TTL), 4\* External USB3.0, 5\* Internal USB2.0
- 1\* PCIe x4 Slot, 1\* M.2 E key Support CNVi
- DC 12~24V Input
- Thin MINI ITX Form Factor (170 \*170 mm)

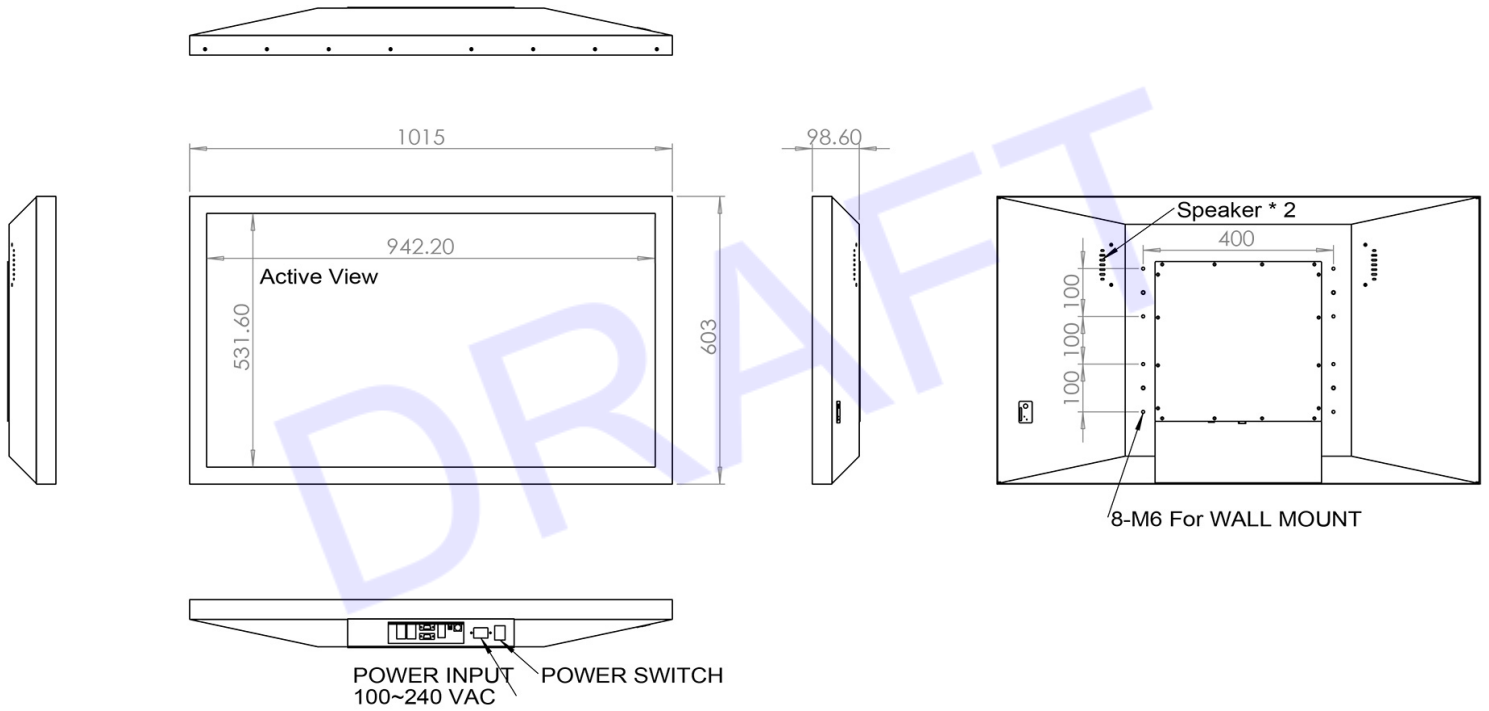
## INTERNAL DIAGRAM



<b>Form Factor</b>	
Dimensions	- Thin Mini ITX ( 170 * 170mm)
<b>Processor System</b>	
CPU	- Intel® LGA1151 Series Processor (Max. 65W)
Core Number	- by CPU
Max Speed	- by CPU
L2 Cache	- by CPU
Chipset	-H310
BIOS	-AMI 128M Flash ROM
<b>Expansion Slot</b>	
M.2	-1 (E key 2230,Support CNVi)
SATA	-1
PCI-e	-1 * PCI-E x4 slot
<b>Memory</b>	
Technology	- Single channel DDR4 2133MHz DRAM
Max.	-64GB
Socket	-2*S O-DIMM
<b>Graphics</b>	
Controller	- Intel® HD Graphics
VRAM	- Shared Memory
VGA	-1 (Max. Resolution: 1920x1200@60Hz)
LVDS	-1 (Co-lay eDP, Max. Resolution: 1920x1080@60Hz)
eDP1.3	-1 (Co-lay LVDS, Max. Resolution: 4096x2304@60Hz)
HDMI 1.4	-1 (Max Resolution : 4096x2160@30Hz)
Multi Display	- Dual Display
<b>Ethernet</b>	
Ethernet	-10/100/1000 Mbps
Controller	- Intel® I219-V + i211AT Gigabit LAN
Connector	- 2* RJ 45
<b>Audio</b>	
CODEC	- HD Audio : Realtek ALC662VD
Channel	- Line-Out, MIC
<b>SATA</b>	
Max Data Transfer Rate	-1* SATAN III (6.0Gb/s)
<b>Rear I/O</b>	
VGA	-1
HDMI	-1
Ethernet	-2
USB	- 4 * USB 3.0
Audio	-1 (Line-out, MIC)
DC-input	-1
<b>Internal Connector</b>	
USB	-5 (USB 2.0)
PS/2	-1
LVDS / inverter	-1 (Co-lay eDP)
eDP	-1
Serial	- 4 (COM1/2 Support 5V/12V TTL)
SATA	-1* SATAN III (6.0Gb/s)
M.2	- 2 (M key + E key)
GPIO	-1 (8 bit)
Chassis intrusion	-1
Audio Header	-1
SMBUS/I2C	-1
AT mode	-1
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (Iosec ~ 255min)
<b>Power Requirements</b>	
Input PWR	-12 ~ 24V DC-in
Power On	AT/ATX Supported - AT : Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
<b>Certifications</b>	
Certifications	- CE, FCC, RoHS, REACH
<b>Environment</b>	
Temperature	- Operating: 0°C~60°C - Storage: -20°C~85°C
<b>Warranty</b>	
Warranty	- 2 Years Limited Warranty
<b>Packing</b>	
Packing	- Net Weight: - Gross Weight: - Color Box dimension: 362*290.5*65mm

# MECHANICAL DRAWING:

*This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.*



Drawing No.: TPW43-i3-PCAP-10122022-V1