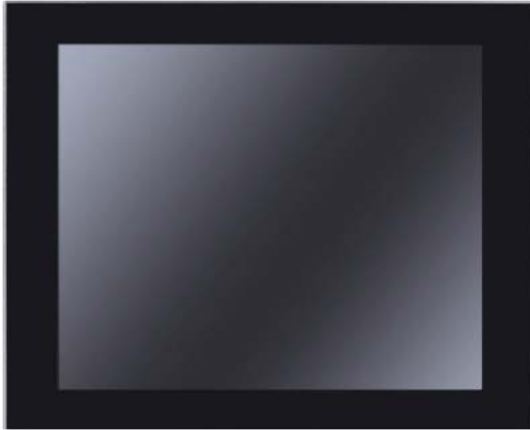


**Model:** TPC-5196(V1)  
**Modular 19" LED, 12th Gen. Intel® Core™ N-series Multi-Touch Panel Computer**



## Main Feature

- LED Panel - Higher Brightness; Longer Life Span; Better Viewing Angle; Less Power Consumption ...
- 19" SXGA LED Panel support 1280x1024 pixels
- Intel® 12th Gen Intel® Core™ Processor N-series
- 8mm Aluminum Magnesium Alloy front bezel
- NEMA4 / IP 65 compliant front panel, with Rugged construction design
- Front flat glass (7H Hardness) with projected capacitive Multi Touch Screen
- Supports 10 points multi-touch in Windows 7/10/11...
- 2 x RS232/485 (with surge protection, auto flow control - for RS485)
- (Optional - WIFI) Mini PCI-E WIFI Module with Antenna
- Panel (Flush) mounting with clip
- Meet standard VESA hole ( 100 x 100mm ), support desk top stand / wall mount / swing arm mounting

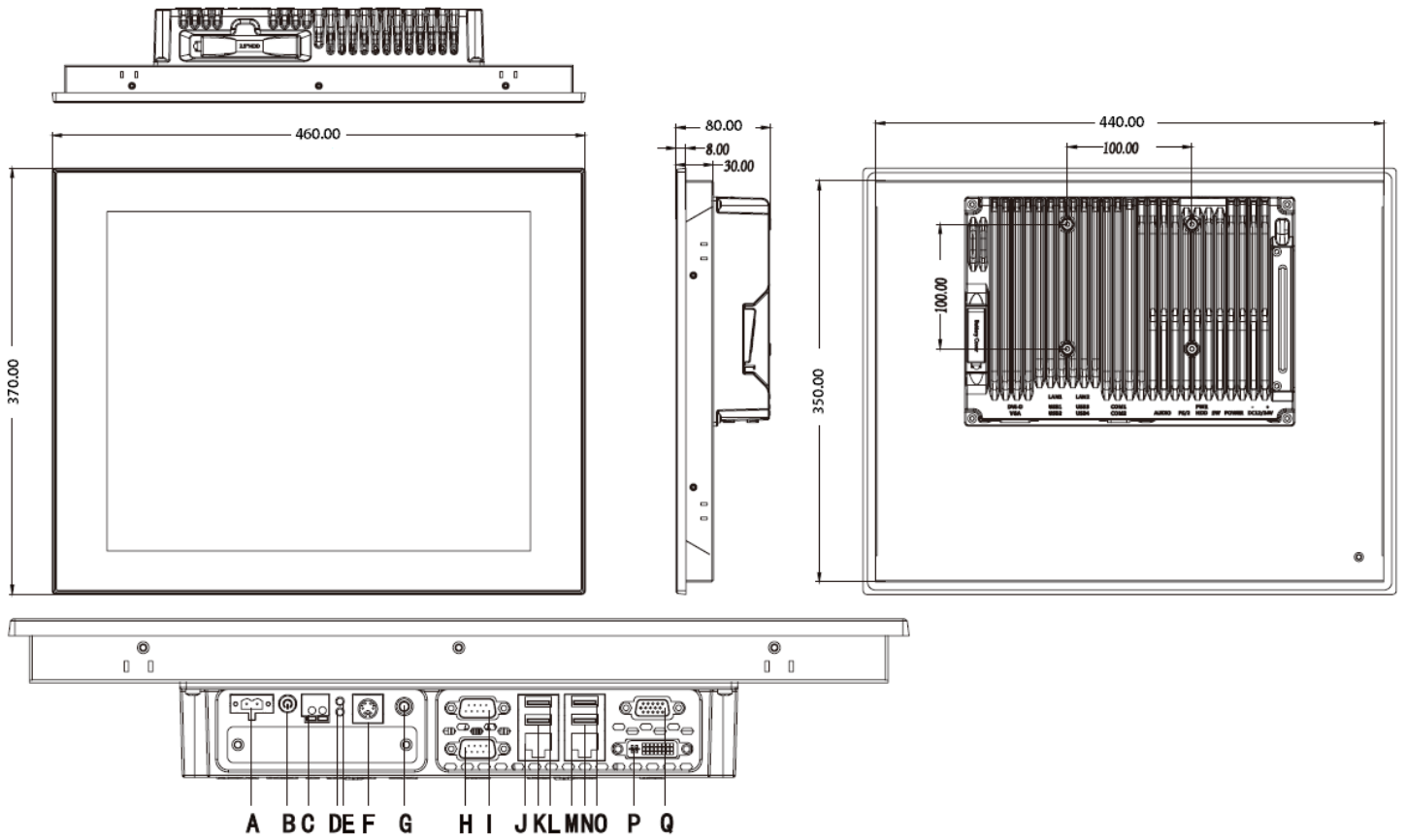
## Application:

- Factory Automation; Processor Automation; Power Generation; Marine / Offshore Industrial; Kiosk ...

Specification	
Product Model	TPC-5196(V1)
CPU	<ul style="list-style-type: none"> <li>➤ Intel® Celeron® Processor J6412 (Quad Core, 2.0 to 2.6GHz)</li> <li>➤ Intel® Alder LAKE N97 Quad-Core (up to 3.6GHz)</li> <li>➤ Intel® Alder LAKE i3 N305 8 x Core (up to 3.8GHz)</li> </ul>
Chipset	Intel® SOC integrated
Memory	1 x DSO-DIMM Socket up to 8GB / 32GB

Storage	1 x 2.5" SSD/HDD drive bay, 1 x mSATA (full size)
Display	Display Type : 19" SXGA <u>LED Panel</u> LCD Resolution : 1280 x 1024 Luminance : 250 cd/m2 View Angel : 170°(H), 160°(V)
Audio	Intel® smart sound technology usb audio
LAN	2 x Intel® i210-IT GbE LAN
USB port	4 x USB 3.0/2.0
Display output	Intel® UHD Graphics, Max. resolution @ 1920 x 1200, with VGA + DVI output
Expansive interface	2 x Mini PCI-E (full size, with SIM Holder) <u>Optional (Expansion card - only add-on one of them):</u> 2 x USB 2.0; 2 x GLAN; 2 x RS 232/485 (Isolated); 16 x DIO (Isolated, 8 Input & 8 Relay Output)
Back panel I/O port	2 x RJ45, 4 x USB 3.0/2.0, 1 x VGA, 1 x DVI, 1 x Lin-out, 2 x RS232/485, 1 x Power Switch, 1 x PS2 (KB & Mouse), DC input terminal (12-24VDC)
Supporting OS	DOS; Windows 7/10/11; Linux
Touch Screen	Internal USB interface controller - Projected Capacitive Multi Touch (10 points) Light transmission: 85% or more Surface hardness : 7H Operation system : DOS; Windows XP / 7 / 10/11; Linux
Wireless LAN ( optional )	MINI PCI-E WIFI Module with Antenna
Construction	Heavy duty steel and aluminum front panel
Environment	Operating temperature: -10 °C to 60 °C Storage temperature: -20 °C to 80 °C Storage humidity: 10% to 90% non-condensing Vibration operate SSD: 3 Grms, IEC 60068-2-64, random, 5-500 Hz, 1 hr/axis Shock operate SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration
Compliance	CE; FCC; ROHS
Dimension W x H x D ( mm )	460 x 370 x 80
<b>Ordering Information</b>	
TPC-5196(V1)	Modular 19" LED Multi-Touch Panel Computer, with Intel® Celeron® Processor J6412 (Quad Core, 2.0 to 2.6GHz)
(Optional) N97	upgrade processor to Intel® Alder LAKE N97 Quad-Core (up to 3.6GHz)
(Optional) N305	upgrade processor to Intel® Alder LAKE i3 N305 8 x Core (up to 3.8GHz)
(Optional) eUSB	2 x USB 2.0 Expansion card
(Optional) eCOM2	2 x isolated RS 232/485 Expansion card
(Optional) eDIO16	16 x DIO (Isolated, 8 Input & 8 Relay Output) Expansion card
(Optional) eGLAN	2 x GLAN Expansion card
(Optional) AC to DC Adapter	12VDC/5A 60watt Power Adapter, input 110-240VAC
(Optional) RAM	4 to 8 DDR3L SO-DIMM RAM (For 8th Gen. J6412 & i3 - 8130U, 8 to 16 DDR4 RAM)
(Optional) SSD / HDD	128GB to 2TB 2.5" SSD, 500GB to 2TB 2.5" SATA HDD
(Optional) OS	DOS, Windows 7 / 8.1 / 10 / 11 Professional or IOT, Linux

## Structure Diagram (Panel cut-off dimension: 442 x 352mm)



- |                     |                        |                         |
|---------------------|------------------------|-------------------------|
| <b>A:</b> DC Input  | <b>B:</b> Power Switch | <b>C:</b> Remote Switch |
| <b>D:</b> PWR LED   | <b>E:</b> HDD LED      | <b>F:</b> PS2           |
| <b>G:</b> Audio Out | <b>H:</b> COM 1        | <b>I:</b> COM 2         |
| <b>J:</b> GLAN 2    | <b>K:</b> USB 3.0/2.0  | <b>L:</b> USB 3.0/2.0   |
| <b>M:</b> GLAN 1    | <b>N:</b> USB 3.0/2.0  | <b>O:</b> USB 3.0/2.0   |
| <b>P:</b> DVI       | <b>Q:</b> VGA          |                         |