Model: TPC-5121W(V1)

Modular 12.1" 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 …
- 12.1" WXGA LED Panel support 1280 x 800 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-5121W(V1)**
CPU	• Intel® Celeron® Processor J6412 (Quad Core, 2.0 to 2.6GHz) • Intel® Alder LAKE N97 Quad-Core (up to 3.6GHz) • Intel® Alder LAKE i3 N305 8 x Core (up to 3.8GHz)
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 : 12.1" XGA **LED Panel** LCD Resolution : 1280 x 800 Luminance : 400 nit View Angel : 170°(H), 170°(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®U HD Graphics, Max. resolution @ 1920 x 1200, with VGA + DVI output
Expansive interface	2 x Mini PCI-E (full size, with SIM Holder) Optional (Expansion card - only add-on one of them): 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)	328 x 239 x 65
Ordering Information	
TPC-5121W(V1)	Modular 12.1" 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: 311 x 222mm)

