TDD-TPC-PM121C-FH
12.1'' Industrial Panel Mount (Front Mount)

Fanless PCAP

Touch Panel PCs

Overview
The **TDD Industrial DP Fanless** Touch Monitors include Rear Mount, Panel Mount, and Closed Frame types, designed for embedded into metal enclosures. Built with Aluminum Die Cast Housing, they provide heat dissipation and mechanical strength. Multi-signal video inputs including HDMI, Display Port, and VGA ensure system compatibility. With industrial Aviation Power Connectors and Phoenix Terminal audio outputs, these monitors deliver performance in environments for Kiosks applications from Self-service, Automated Parking, Industrial Automation, Outdoor Control, Healthcare to Gaming.

Features
● PCAP touch, fanless design with Intel® N / J / I series, **6xUSB**(2.0/3.0), **4xCOM**, **DP**, HDMI, **2xGbE LAN**, **9-36VDC** in
● Embedded design with **Rugged High Bright TFT Panel, Solid Aluminum Frame and Die Cast Rear Housing**
● IP65 (front) for water and dust protection, flexible mounting in any table, kiosk, or cabinet design

Specifications

System

Processor **(Default memory+ storage: 8+128 GB, up to 32GB+1TB)**	**J6412 / N97** Quad-core x86-64 2.6 / 3.6 GHz, Win 10|11|Linux / Win 11|Linux **i5-1035G1 / i7-1065G7** Quad-core x86-64 3.6 / 3.9 GHz, Windows 10|11|Linux **i3-1115G4/i5-1155G7/i7-1165G7** 2 / 4 / 4-core x86-64 4.1/4.5/ 4.4 GHz, Win 10|11|Linux **i3-1215U / i5-1235U / i7-1255U** 6-core/10-core/10-core x86-64 4.4/4.4/4.7 GHz, Win11|Linux

Panel

Size / Active Area (mm)	12.1"(4:3), 30.734cm, Active matrix TFT LCD (LED) / 246.1 x 184.6 mm
Resolution / Contrast	1024 x 768 / 1200:1
Viewing Angle	Horizontal: 85° or 170° total / Vertical: 85° or 170° total
Color Depth/Brightness	16.7 million / **500 nits**
Response Time / Freq	30 (Typ.)(Tr+Td) ms / Horizontal: 30 - 60 KHz / Vertical: 50 - 75 Hz

Touch

Touch Technology / OS	PCAP (Projected Capacitive) - 10 Touch Capacity / Windows / Android / Linux / Mac
Surface Treatment	Water, Dust & Vandal proof; **Optional**: Anti-glare, Anti-fingerprint, Anti-smudge, Anti-bacterial

I / O Ports

USB x6(N97/J6412/10th/11th/12th CPU: USB3.0x4+USB2.0x2/USB3.0x3+USB3.0x3/USB2.0x4+USB3.0x2/USB3.0x2)

HDMI x1 / HDMI x1+DP x1 / HDMI x2: 10th / N97|12th / J6412|11th CPU:

RS-485 x1(configurable as GPIO), **RS-485 / RS-232 x3**(selectable via DIP switch)

LAN x2 / WIFI x1 / **DC (3P-5.08 Phoenix Terminal)** x1 / Audio x1 / Mic x1 / Power Button x1 / BT | 4G/5G (Optional) x1

Power	Supply / Consumption: 100-240 VAC / **9-36VDC** +/- 5%; 45W typical, 1.5W sleep, 0.5W off
Mechanical	Product Dimensions: 292.6 x 231.2 x 60.1 mm / Weight(Unpacked/Packed): 3.2 / 3.8kg Box Dimensions: 420 x 360 x 160 mm / VESA Mounting: 75 x 75 mm M4 VESA
Environmental	Operating/Storage Temperature|Humidity: -10°C-50°C/-20°C-60°C|10-90% RH @ 40 °C (NC)
Accessories	Power adapter / cable, panel mount kits w/screws
Others	MTBF / Warranty / Enclosure Color: 50,000 hours demonstrated / 1-year / black	**grey** Ready for Use: 24/7, **Cutout Dimensions: 285 x 223.6 mm**

* **TDD** (**www.tddtouch.com**, **sales@tddtouch.com**) reserves the right to change specifications without prior notice.