

TDD-TPC-PM121MES

12.1" Panel Mount (Front Mount) **MES** PCAP Touch Panel PCs



Overview

The **TDD MES Touch Panel PCs** are robust industrial devices designed for harsh environments. Available in 10.1 to 21.5", they featured an integrated die-casting design and a custom motherboard for low power consumption and 24/7 stable operation. These PCs support various upgradeable interfaces, including RS485/422, GPIO, and aviation power interfaces. They are equipped with NFC, high-precision QR code reader, and optional functions like fingerprint scanning and metal keypads. With explosion-proof, dustproof and waterproof (front) capabilities, along with an automatic brightness adjustment feature, they are ideal for real-time identity authentication and permission monitoring in digital factories.

Features

- Touch thru glass enabled with PCAP supports thickness up to 5mm
- Embedded design with **Light Aluminum Frame & Steel Back**
- IP65 (front) for water and dust protection, flexible mounting in any table, kiosk, or cabinet design

Specifications (A = Aluminum Back, S = Steel Back in following "Mechanical")

System

Processor	Android: RK3188/RK3288/RK3566/RK3568 Quad-core Cortex-A9/A17/A55 1.6/1.8/ 2.0GHz Windows: Intel® J1900 / J4125 Quad Core 2.0 / 2.7GHz / Intel® Core™ i3 / i5 / i7 / i9 4-13 th G
Memory(RAM)	Android: 1 / 2GB(std) / 4 / 8 / 16GB; Windows: DDR3/4 2 / 4(std) / 8 / 16 / 32 / 64GB
Storage	Android: 4/8/ 16(std) /32/64GB eMMC Flash; Windows: 32/64(std)/128/256/512GB SSD/HDD

Panel

Size / Active Area (mm)	12.1"(4:3), 30.73cm, Active matrix TFT LCD (LED) / 246 mm x 184.5 mm
Resolution / Contrast	1024 x 768 / 1000:1
Viewing Angle	Horizontal: 89° or 178° total / Vertical: 89° or 179° total
Color Depth/Brightness	16.7 million / 400 nits
Response Time / Freq	25 (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

Android	USB x4 / COM x2 / HDMI x1 / LAN x1 / WIFI x1 / DC x1 / TF-CARD x1 / Audio x1
Windows	USB x4 / COM x2 / VGA x1 / HDMI x1 / LAN x1 / WIFI x1 / DC x1 / Audio x1 / Mic x1

Power

Supply / Consumption: 100-240 VAC / 12VDC 5A +/- 5%; 20W typical, 1.2W sleep, 0.5W off

Mechanical

Product Dimensions: 334 x 295 x 58.2(**A**)mm / Weight (Unpacked / Packed): 4.3/5.3 kg
Box Dimensions: 430 x 280 x 185mm / VESA Mounting: 75 x 75 / 100 x 100mm

Environmental

Operating / Storage Temperature: -10°C to 50°C / -20°C to 60°C

Accessories

Power adapter / cable, panel mount w/screws (opt.)

Others

MTBF / Warranty / Enclosure Color / Ready for Use: 50,000 hours / 1-year / silver / 24/7
Optional: HF RFID (13.56Mhz), Fingerprint, Barcode Reader, Pin Pad & Camera

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