

# TDD-TPC-BF215C-F

## 21.5" **Industrial** Bezel-free (Rear Mount)

Open Frame **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 TFT Panel and Solid Aluminum Die Cast Rear Housing**
- IP65 (front) for water and dust protection, flexible mounting in any table, kiosk, or cabinet design

### Specifications

#### System

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

#### Panel

|                         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Size / Active Area (mm) | 21.5 "(16:9), 54.61cm, Active matrix TFT LCD (LED) / 476.6 x 268.1 mm |
| Resolution / Contrast   | 1920 x 1080 / 1000:1                                                  |
| Viewing Angle           | Horizontal: 89° or 178° total / Vertical: 89° or 178° total           |
| Color Depth/Brightness  | 16.7 million / 250 nits                                               |
| Response Time / Freq    | 14 (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; <b>Optional</b> : 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+USB2.0x3/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: 532.3 x 323.7 x 61.5 mm / Weight(Unpacked/Packed): 6.8/ 7.8kg  
Box Dimensions: 640 x 470 x 160 mm / VESA Mounting: 100 x 100 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, flush mount brackets w/screws

#### Others

MTBF / Warranty / Enclosure Color: 50,000 hours demonstrated / 1-year / black | grey  
Ready for Use: 24/7, **Cutout Dimensions: 520.8 x 312.2 mm (R5.5)**

\* TDD ([www.tddtouch.com](http://www.tddtouch.com), [sales@tddtouch.com](mailto:sales@tddtouch.com)) reserves the right to change specifications without prior notice.