

# TPC150-RPS

14th/13th/12th Gen Intel® Core™  
15" Heavy Industrial Touch Panel PC



## KEY FEATURES



### Touch Screen

15" 1024x768 TFT LCD Panel with Touch Screen



### DDR5

2 DDR5 SODIMM up to 64GB



### Three Display Support

1 DP++, 1 HDMI, 1 VGA



### Rich I/O

2 GbE, 2 COM, 6 USB 3.2 Gen1, Line-out (opt.)

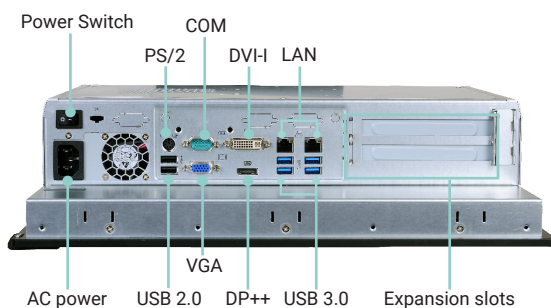


### SATA Drive Bays

2 x 2.5" SATA drive bays



## Panel

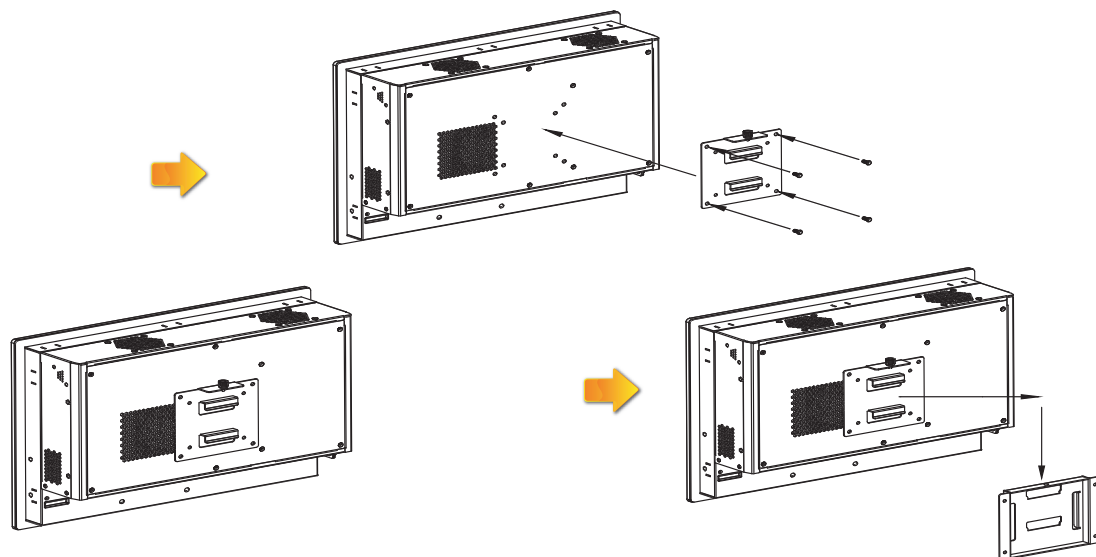


Bottom View



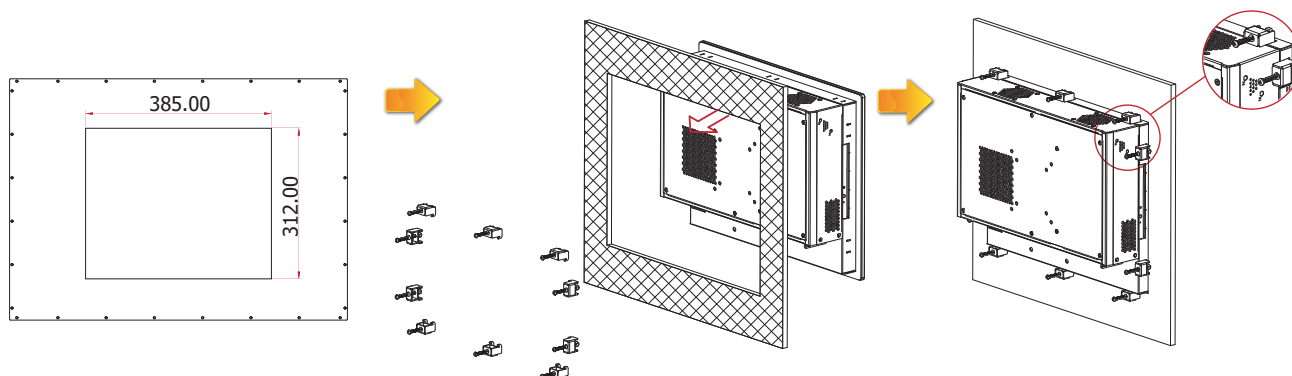
Top View

## VESA MOUNTING



## PANEL MOUNTING

Suggested cut out size  
(The flat panel thickness is less than 10mm)



## SPECIFICATION

|                        |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| SYSTEM                 | Processor             | <p>14th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br/>           Intel® Core™ i9-14900 (24 Cores, 36M Cache, up to 5.8 GHz); 65W<br/>           Intel® Core™ i9-14900T (24 Cores, 36M Cache, up to 5.5 GHz); 35W<br/>           Intel® Core™ i7-14700 (20 Cores, 33M Cache, up to 5.4 GHz); 65W<br/>           Intel® Core™ i7-14700T (20 Cores, 33M Cache, up to 5.2 GHz); 35W<br/>           Intel® Core™ i5-14500 (14 Cores, 24M Cache, up to 5 GHz); 65W<br/>           Intel® Core™ i5-14500T (14 Cores, 24M Cache, up to 4.8 GHz); 35W<br/>           Intel® Core™ i3-14100 (4 Cores, 12M Cache, up to 4.7 GHz); 60W<br/>           Intel® Core™ i3-14100T (4 Cores, 12M Cache, up to 4.4 GHz); 35W</p> <p>13th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br/>           Intel® Core™ i9-13900E (24 Cores, 36M Cache, up to 5.2 GHz); 65W<br/>           Intel® Core™ i9-13900TE (24 Cores, 36M Cache, up to 5.0 GHz); 35W<br/>           Intel® Core™ i7-13700E (16 Cores, 30M Cache, up to 5.1 GHz); 65W<br/>           Intel® Core™ i7-13700TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W<br/>           Intel® Core™ i7-13700T (16 Cores, 30M Cache, up to 4.9 GHz); 35W<br/>           Intel® Core™ i5-13500E (14 Cores, 24M Cache, up to 4.6 GHz); 65W<br/>           Intel® Core™ i5-13500TE (14 Cores, 24M Cache, up to 4.5 GHz); 35W<br/>           Intel® Core™ i5-13500T (14 Cores, 24M Cache, up to 4.6 GHz); 35W<br/>           Intel® Core™ i5-13400E (10 Cores, 20M Cache, up to 4.6 GHz); 65W<br/>           Intel® Core™ i3-13100E (4 Cores, 12M Cache, up to 3.3 GHz); 60W<br/>           Intel® Core™ i3-13100TE (4 Cores, 12M Cache, up to 4.1 GHz); 35W<br/>           Intel® Core™ i3-13100T (4 Cores, 12M Cache, up to 4.2 GHz); 35W</p> <p>12th Generation Intel® LGA 1700 Socket Processors, TDP support up to 65W<br/>           Intel® Core™ i9-12900E (16 Cores, 30M Cache, up to 5.0 GHz); 65W<br/>           Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W<br/>           Intel® Core™ i7-12700E (12 Cores, 25M Cache, up to 4.8 GHz); 65W<br/>           Intel® Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.6 GHz); 35W<br/>           Intel® Core™ i5-12500E (6 Cores, 18M Cache, up to 4.5 GHz); 65W<br/>           Intel® Core™ i5-12500TE (6 Cores, 18M Cache, up to 4.3 GHz); 35W<br/>           Intel® Core™ i3-12100E (4 Cores, 12M Cache, up to 4.2 GHz); 60W<br/>           Intel® Core™ i3-12100TE (4 Cores, 12M Cache, up to 4.0 GHz); 35W<br/>           Intel® Pentium® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W<br/>           Intel® Pentium® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W<br/>           Intel® Celeron® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W<br/>           Intel® Celeron® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W</p> |
|                        | Memory                | 2x 262-pin SODIMM up to 64GB<br>Dual Channel DDR5 4800MHz (ECC supported w/ i7&i5, Non-ECC supported)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DISPLAY & TOUCH SCREEN | Display Type          | 15" 1024x768 TFT LCD Panel with Projected Capacitive Touch and Resistive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        | Brightness            | 300 cd/m²                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                        | View Angle            | 176 (H) / 176 (V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                        | Backlight Lifetime    | 50,000 MTBF LED Backlight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| STORAGE                | Internal              | 2 x 2.5" SATA 2.0 Drive Bay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EXPANSION              | Interface             | 1 x PCIe Gen 5 x16 (Bifurcation 1 x16, 2 x8)<br>1 x M.2 2230 E Key (PCIe Gen3x1 and USB2.0, support Intel® CNVi)<br>1 x M.2 2280 M Key (PCIe Gen 3x4 or SATA3), support NVMe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| REAR I/O               | Ethernet              | 2 x GbE (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                        | Serial                | 2 x RS-232/422/485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                        | USB                   | 6 x USB 3.2 Gen1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                        | Display               | 1 x DP++<br>1 x HDMI<br>1 x VGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                        | Audio                 | 1 x Line-out (available upon request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| POWER                  | Type                  | 100-240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                        | Connector             | C14 Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                        | Consumption           | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| OS SUPPORT             | Microsoft             | Windows 10 IoT Enterprise 64-bit<br>Windows 11 LTSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                        | Linux                 | Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MECHANISM              | Construction          | Sheet Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                        | IP Rating             | IP65 front bezel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                        | Mounting              | Panel/VESA (75x75/100x100) Mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                        | Dimension (W x H x D) | 403 x 330 x TBD mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                        | Weight                | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ENVIRONMENT            | Operating Temperature | 0 to 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                        | Storage Temperature   | -30 to 70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                        | Relative Humidity     | 10% to 90% @ 40°C (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CERTIFICATION          | Certification         | CE / FCC Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## PACKING LIST

- 1 TPC150-RPS Touch Panel PC
- 1 Quick Installation Guide