

# TP-120 SERIES

**Front IP66/67 Silver Aluminum**  
**Touch IPC**

## Features

**Intel® 13th Gen Raptor Lake-P Embedded/Industrial SKU Series**
**DDR5 5200 MHz SODIMM Slot up to 32GB**
**Display Size: 15" / 15.6" / 17" / 19" / 21.5" / 24"**
**4 x HDMI, 4 x GLAN, 4 x USB 3.2 Gen 2, 2 x RS232**
**Front IP66/67 aluminum Touch IPC**
**5 Wires Resistive (Single touch) / True Flat PCT**
**VESA mount / Panel mount / Clip mount**
**Quadruple independent displays: 4HDMI, 1 LVDS/eDP**
**Wide Voltage DC-IN 12~24V**


## Specifications

| Display for 3:4 Ratio      |                                                                                                                                                             |             |             | Display for 16:9 Ratio     |             |           |           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------------------|-------------|-----------|-----------|
| Size                       | 15" TFT                                                                                                                                                     | 17" TFT     | 19" TFT     | 15.6" TFT                  |             | 21.5" TFT | 24" TFT   |
| Resolution                 | 1024 x 768                                                                                                                                                  | 1280 x 1024 | 1280 x 1024 | 1366 x 768                 | 1920 x 1080 | 1920*1080 | 1920*1080 |
| Colors                     | 16.7M                                                                                                                                                       | 16.7M       | 16.7M       | 16.7M                      | 16.7M       | 16.7M     | 16.7M     |
| Luminance                  | 300 cd/m2                                                                                                                                                   | 350 cd/m2   | 250 cd/m2   | 400 cd/m2                  | 400 cd/m2   | 250 cd/m2 | 250 cd/m2 |
| Contrast Ratio             | 2500:1                                                                                                                                                      | 1000:1      | 1000 : 1    | 500 : 1                    | 700 : 1     | 3000 : 1  | 1000 : 1  |
| View Angle (H/V)           | 176°/176°                                                                                                                                                   | 170°/160°   | 170°/160°   | 170°/160°                  | 160°/140°   | 176°/176° | 170°/160° |
| SYSTEM                     |                                                                                                                                                             |             |             |                            |             |           |           |
| CPU                        | Intel® Mobile 13th Core™ i7-1365UE, 28W                                                                                                                     |             |             |                            |             |           |           |
| Memory                     | Single-channel DDR5 5200 MHz Up to 32 GB                                                                                                                    |             |             |                            |             |           |           |
| Storage                    | 1 x SATA 3.0                                                                                                                                                |             |             |                            |             |           |           |
| OS Support                 | Windows 10 IoT Enterprise 2021 LTSC (64-bit, 21H2)                                                                                                          |             |             | Linux (Support by request) |             |           |           |
|                            | Windows 11 IoT Enterprise (64-bit, 23H2, Pre-scan)                                                                                                          |             |             |                            |             |           |           |
| I/O Ports                  | * The I/O interface shown may vary depending on the selected motherboard.                                                                                   |             |             |                            |             |           |           |
| RS232                      | 2                                                                                                                                                           |             |             | GLAN                       | 4           |           |           |
| HDMI                       | 4                                                                                                                                                           |             |             | USB 3.2 Gen 2              | 4           |           |           |
| Expansion Slot             |                                                                                                                                                             |             |             |                            |             |           |           |
| M.2                        | 1 x M.2 M key (PCIe Gen4 x4 NVMe), 2280<br>1 x M.2 B key (PCIe x1, USB 2.0, w/NANO SIM-Holder), 2242/3042<br>1 x M.2 E key (PCIe x1, USB 2.0, w/CNVi), 2230 |             |             |                            |             |           |           |
| MECHANICAL & ENVIRONMENTAL |                                                                                                                                                             |             |             |                            |             |           |           |
| Operation Temp.            | 0 ~ 45℃                                                                                                                                                     |             |             |                            |             |           |           |
| Storage Humidity           | 10 ~ 90%, non-condensing                                                                                                                                    |             |             |                            |             |           |           |
| Form Factor                |                                                                                                                                                             |             |             |                            |             |           |           |
| Touch Screen               | 15" / 17" / 19" : PCT / 5W ( Single touch )<br>15" / 15.6" / 17" / 19" / 21.5" / 24" : Projected Capacitive Multi-Touch Panel                               |             |             |                            |             |           |           |
| Mounting                   | VESA mount (100x100mm) & Panel mount & Clip mount                                                                                                           |             |             |                            |             |           |           |
| Power Supply               | DC-in 12~24V 3P Power terminal block                                                                                                                        |             |             |                            |             |           |           |
| WIFI Optional              | External Antenna (Wi-Fi): Supports M.2 Wi-Fi module with external antenna connection for enhanced signal performance                                        |             |             |                            |             |           |           |

