

# TPC-PCS156HW

15.6" FHD Whiskey Lake Industrial Panel PC

Version: 3.0

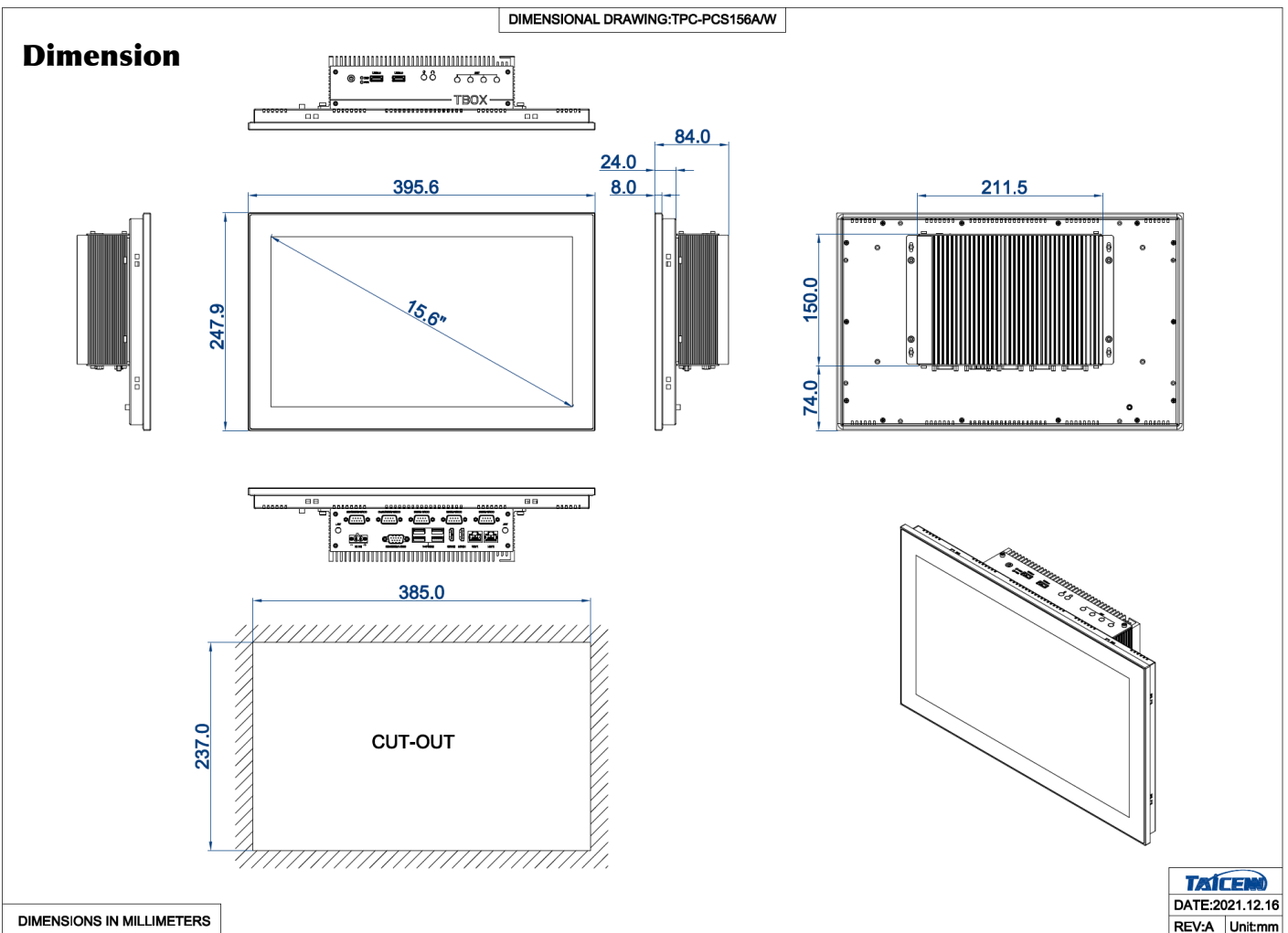


## Features

- Widescreen 15.6" TFT LCD display, WLED Backlit, FHD 1920 \*1080;
- Intel 8<sup>th</sup> -gen. Whiskey Lake -U, Celeron Core i3/i5/i7 processor;
- Single DDR4 memory, up to 16GB, 1\* M.2 and 1\* 2.5" SATA storage;
- Multi-points (Max. up to 10 points) Projective capacitive touch, EETI controller;
- Aluminum-magnesium alloy, anodized treatment, Modular designed;
- 2 GLAN, Dual wireless expansion, 4G/5G, WIFI/BT support;
- DC 12V, Optional wide voltage DC 9~36V input;
- 6\*USB (4 USB3.0), 6\*COM (Optional GPIO), 2\*HDMI;
- Fan-less & Rich IO design, Panel mount, VESA, Front IP65 protection.

## Specification

|                       |                       |                                                                                |                                             |                                             |                                             |
|-----------------------|-----------------------|--------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Hardware & System     | BIOS                  | SPI AMI EEI BIOS                                                               |                                             |                                             |                                             |
|                       | CPU                   | Celeron 4205U, Dual core 1.8Ghz                                                | i3-8145U, Dual core 2.1Ghz, burst to 3.9Ghz | i5-8265U, Quad-core 1.5Ghz, burst to 3.9Ghz | i7-8565U, Quad-core 1.8Ghz, burst to 4.6Ghz |
|                       | Memory                | SO-DIMM, DDR4-1866/2133/2400 MT/s, max. up to 16GB                             |                                             |                                             |                                             |
|                       | Storage               | 1* M.2 2242/2280 (Optional support 1* 2.5" SATA)                               |                                             |                                             |                                             |
|                       | Graphic               | Intel HD Graphics 610/620                                                      |                                             |                                             |                                             |
|                       | Network               | 1* Intel I211AT, 1* Intel I219V (Optional 3G/4G, 5G, Wi-Fi/BT, Wi-Fi 6)        |                                             |                                             |                                             |
|                       | TPM                   | Intel PTT TPM2.0                                                               |                                             |                                             |                                             |
|                       | Expansion             | 1* M.2 Key-B slot. 1* M.2 Key-E slot                                           |                                             |                                             |                                             |
|                       | Watch dog             | 0~256 seconds programmable                                                     |                                             |                                             |                                             |
|                       | OS                    | Win10/Win11, Linux                                                             |                                             |                                             |                                             |
| IO interface          | COM                   | COM1/6: RS485 (Optional RS232), COM2/3/4: RS232, COM5: RS232 (Optional 8 GPIO) |                                             |                                             |                                             |
|                       | Ethernet              | 2x RJ45, 10/100/1000 Mbps                                                      |                                             |                                             |                                             |
|                       | Audio                 | Default no Mic-in/Line-out (Optional)                                          |                                             |                                             |                                             |
|                       | USB                   | 4x USB3.0, 2x USB2.0                                                           |                                             |                                             |                                             |
|                       | Display               | 2x HDMI (Max. support 4096 * 2160 @30Hz)                                       |                                             |                                             |                                             |
|                       | Power                 | 1x 2 pins, phenix terminal                                                     |                                             |                                             |                                             |
| LCD Display           | Size/Type             | 15.6" TFT LCD                                                                  |                                             |                                             |                                             |
|                       | Resolution            | 1920 * 1080 (Full HD)                                                          |                                             |                                             |                                             |
|                       | Brightness            | 450 nits                                                                       |                                             |                                             |                                             |
|                       | Backlit & MTBF        | LED backlit & 50 000hours                                                      |                                             |                                             |                                             |
|                       | Display area          | 344.16 * 193.59                                                                |                                             |                                             |                                             |
|                       | View angle            | 85/85/85/85                                                                    |                                             |                                             |                                             |
| Touchscreen           | Type                  | Projective capacitive touchscreen                                              |                                             |                                             |                                             |
|                       | Touch points          | Multi points touch, max. up to 10 points                                       |                                             |                                             |                                             |
|                       | Durability            | >100 000 000 times                                                             |                                             |                                             |                                             |
|                       | Surface hardness      | Mohs 6H                                                                        |                                             |                                             |                                             |
|                       | Special treatment     | Anti-fingerprint (AF)                                                          |                                             |                                             |                                             |
| Structure             | Structure and surface | Magnesium-Aluminum alloy, sand blasting, anodized treatment                    |                                             |                                             |                                             |
|                       | Mount method          | Panel mount (Optional support VESA 75/100 mount)                               |                                             |                                             |                                             |
|                       | Cooling system        | Large area finned heat sink                                                    |                                             |                                             |                                             |
|                       | Overall dimension     | 395.6 * 247.9 * 84.0 (mm)                                                      |                                             |                                             |                                             |
|                       | Cut-out dimension     | 385 * 237 (mm)                                                                 |                                             |                                             |                                             |
|                       | Net weight            | 5.0 KG                                                                         |                                             |                                             |                                             |
|                       | IP protection         | Front Panel IP65                                                               |                                             |                                             |                                             |
| Power & Environmental | Operating temp.       | 0 ~ +60°C                                                                      |                                             |                                             |                                             |
|                       | Storage temp.         | -20 ~ +70°C                                                                    |                                             |                                             |                                             |
|                       | Relative Humidity     | 10 ~ 95% @ 10C (Non-condensation)                                              |                                             |                                             |                                             |
|                       | Vibration             | 50 ~ 500 Hz, 1.5G, 0.15mm peak to peak                                         |                                             |                                             |                                             |
|                       | Shock                 | 10G/Peak (11 ms)                                                               |                                             |                                             |                                             |
|                       | Power input           | DC 12V (Optional DC 9~36V)                                                     |                                             |                                             |                                             |
|                       | Power consumption     | Around 40W                                                                     |                                             |                                             |                                             |
|                       | EMC                   | CE/FCC Class A                                                                 |                                             |                                             |                                             |



## Ordering info.

| Part no.         | Description                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TPC-PCS156HW0    | 15.6", 1920 * 1080, <b>Celeron 4205U</b> , Pcap. touch, 2*GLAN, 4*USB3.0, 2*USB2.0, 6*COM, 2*HDMI, DC 12V                                                                                                                 |
| TPC-PCS156HW1    | 15.6", 1920 * 1080, <b>Core i3-8145U</b> , Pcap. touch, 2*GLAN, 4*USB3.0, 2*USB2.0, 6*COM, 2*HDMI, DC 12V                                                                                                                 |
| TPC-PCS156HW2    | 15.6", 1920 * 1080, <b>Core i5-8265U</b> , Pcap. touch, 2*GLAN, 4*USB3.0, 2*USB2.0, 6*COM, 2*HDMI, DC 12V                                                                                                                 |
| TPC-PCS156HW3    | 15.6", 1920 * 1080, <b>Core i7-8565U</b> , Pcap. touch, 2*GLAN, 4*USB3.0, 2*USB2.0, 6*COM, 2*HDMI, DC 12V                                                                                                                 |
| Memory           | SO-DIMM, DDR4, <u>4GB/8GB/16GB</u> Memory                                                                                                                                                                                 |
| Storage          | M.2 SSD: <u>128GB/256GB/512GB</u><br>2.5" SATA SSD: <u>128GB/256GB/512GB</u><br>2.5" HDD: <u>2TB/4TB</u>                                                                                                                  |
| Wireless modules | Wi-Fi module, with Antenna (M.2 interface)<br>Wi-Fi with BT integrated module, with Antenna (M.2 interface)<br>All network 4G/LTE module, With Antenna (M.2 interface)<br>5G network module, with antenna (M.2 interface) |
| DC module        | DC to DC, wide voltage DC 9~36V                                                                                                                                                                                           |
| Bracket          | Additional VESA bracket for VESA mounting                                                                                                                                                                                 |
| SIM Card module  | SIM Card slot for 3G/4G/5G Wireless function                                                                                                                                                                              |

## Packing List

|                              |
|------------------------------|
| ■ 1x Standard Product        |
| ■ 1x PSU (Power Supply)      |
| ■ 1x Power cable & Plug      |
| ■ 8x Panel mount metal clips |