

# TPC-DCS185HE1

18.5" FHD Elkhart Lake J6412 Pcap. Panel PC

Version: 1.0



## Features

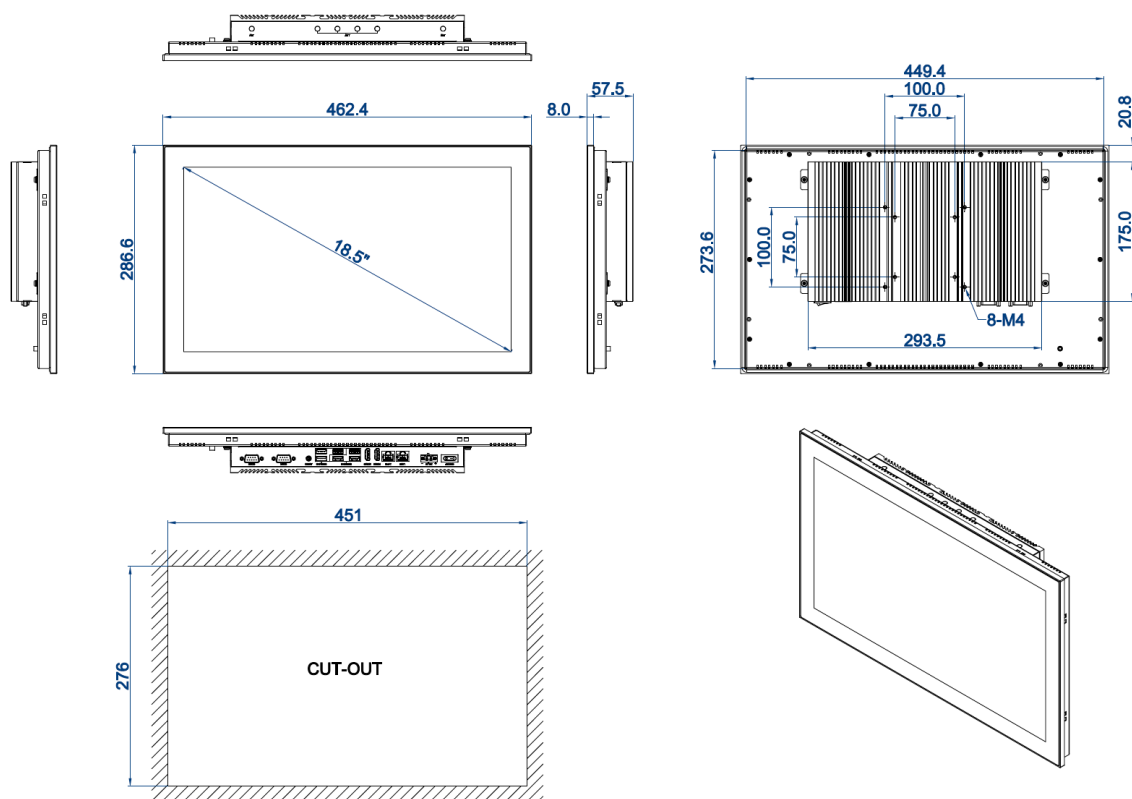
- Widescreen 18.5" TFT LCD display, LED Backlit, Full HD 1920 \*1080;
- Intel Elkhart Lake Celeron J6412 processor, Quad-core 2.0Ghz;
- 1\* DDR4 memory, up to 32GB, 1\* M.2 NVME and 1\* 2.5" SATA storage;
- Multi-points (Max. up to 10 points) Projective capacitive touch, EETI controller;
- Aluminum-magnesium alloy, anodized treatment, Modular designed;
- DC 12V power input, optional wide voltage DC 9~36V range;
- IO: 2\*GLAN, 3\*USB3.0, 3\*USB2.0, 2\*COM (DB9), 2\*HDMI, Audio;
- Intel PTT TPM2.0, support Windows 11;
- Fan-less & Slim design, Panel mount, VESA, Front IP65 protection.

## Specification

|                       |                       |                                                                              |
|-----------------------|-----------------------|------------------------------------------------------------------------------|
| Hardware & System     | BIOS                  | SPI AMI EEI BIOS                                                             |
|                       | CPU                   | Intel Elkhart Lake Celeron J6412, Quad-core 2.0Ghz, burst to 2.6Ghz, TDP 10W |
|                       | Memory                | SO-DIMM, Support DDR4 2666/2933/3200 MHz, Max. up to 32GB                    |
|                       | Storage               | 1* M.2 2280 (NVMe PCIe 2.0) + 1* 2.5" SATA                                   |
|                       | Graphic               | Intel UHD Graphics for 10 <sup>th</sup> Gen Intel processors                 |
|                       | Network               | 2* Intel I225 GBE LAN chip (Optional wireless 3G/4G, Wi-Fi/BT, 4G/5G)        |
|                       | Audio                 | On-board Realtek ACL 897 audio controller                                    |
|                       | Expansion             | 1* M.2 Key-B slot, 1* Mini-PCIe slot                                         |
|                       | Watch dog             | 0~256 seconds programmable                                                   |
|                       | OS                    | Win10, Win11, Linux, Ubuntu                                                  |
| IO interface          | COM                   | 2*RS232 (Optional 1* RS485)                                                  |
|                       | Ethernet              | 2* RJ45, 10/100/1000 Mbps                                                    |
|                       | Audio                 | Mic-in/Line-out (2 in 1, 4.0mm jack)                                         |
|                       | USB                   | 3x USB3.0, 3x USB2.0                                                         |
|                       | Display               | 2x HDMI                                                                      |
|                       | Power                 | 1x 2 pins, phenix terminal                                                   |
| LCD Display           | Size/Type             | 18.5" TFT LCD                                                                |
|                       | Resolution            | 1920 * 1080 (Full HD)                                                        |
|                       | Brightness            | 350 nits                                                                     |
|                       | Backlit & MTBF        | LED backlit & 50 000hours                                                    |
|                       | Display area          | 409.8 * 230.4                                                                |
|                       | 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, VESA 75/100                                                     |
|                       | Cooling system        | Large area finned heat sink                                                  |
|                       | Overall dimension     | 462.4 * 296.6 * 57.5 (mm)                                                    |
|                       | Cut-out dimension     | 451 * 276 (mm)                                                               |
|                       | Net weight            | 5.6 KG                                                                       |
|                       | IP protection         | Front Panel IP65                                                             |
| Power & Environmental | Operating temp.       | -20 ~ +60°C                                                                  |
|                       | Storage temp.         | -30 ~ +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 35W                                                                   |
|                       | EMC                   | CE/FCC Class A                                                               |

DIMENSIONAL DRAWING:TPC-DCS185E1

## Dimension



DIMENSIONS IN MILLIMETERS

**TAICEN**  
 DATE:2022.06.21  
 REV:A Unit:mm

## Ordering info.

| Part no.         | Description                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TPC-DCS185HE1    | 18.5", 1920 * 1080, <b>Celeron J6412, Quad-core 2.0Ghz</b> , Pcap. touch, 2*GLAN, 3*USB3.0, 3*USB2.0, 2*COM, 2*HDMI, DC 12V, PSU                  |
| TPC-DCS185HE1W   | 18.5", 1920 * 1080, <b>Celeron J6412, Quad-core 2.0Ghz</b> , Pcap. touch, 2*GLAN, 3*USB3.0, 3* USB2.0, 2*COM, 2*HDMI, DC 9~36V, No PSU by default |
| Memory           | SO-DIMM, DDR4, <u>4GB/8G/16G/32G</u> Memory                                                                                                       |
| Storage          | M.2 SSD: <u>128GB/256GB/512GB</u><br>2.5" SATA SSD: <u>64GB/128GB/256GB/512GB/1TB</u><br>2.5" HDD: <u>2TB/4TB</u>                                 |
| Wireless Modules | Wi-Fi module, with Antenna<br>Wi-Fi with BT integrated module, with Antenna<br>All network 4G/LTE module, With Antenna<br>5G module, with Antenna |
| Power supply     | Optional PSU for TPC-DCS185HE1W (If needed)                                                                                                       |
| SIM Card module  | Sim card slot for 3G/4G/5G wireless expansion                                                                                                     |

## Packing List

- 1x Standard Product
- 1x 60W PSU (Power Supply)
- 1x Power cable & Plug
- 8x Panel mount metal clips