



## Features

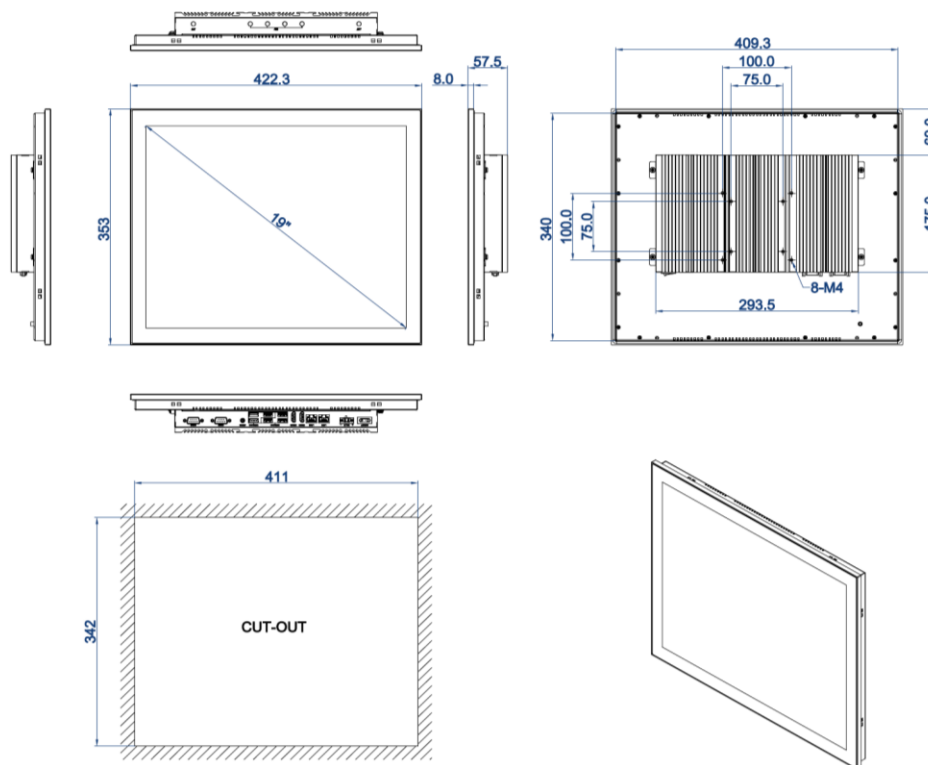
- 19.0" TFT LCD display, LED Backlit, SXGA 1280 \* 1024;
- Intel Elkhart Lake Celeron J6412 processor, Quad-core 2.0Ghz;
- 1\* DDR4 memory, up to 32GB, 1\* M.2 NVME and 1\* 2.5" SATA storage;
- Multi-point projected capacitive touch, or 5-wire resistive touch;
- Aluminum-magnesium alloy, anodized treatment, 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             | 19.0" TFT LCD                                                                                 |
|                       | Resolution            | 1280 * 1024 (SXGA)                                                                            |
|                       | Brightness            | 250 nits                                                                                      |
|                       | Backlit & MTBF        | LED backlit & 30 000hours                                                                     |
|                       | Display area          | 376.32 * 310.06                                                                               |
|                       | View angle            | 89/89/89/89                                                                                   |
| Touchscreen           | Type                  | Projective capacitive touchscreen / Wide temp. 5-wires Resistive touchscreen, EETI controller |
|                       | Touch points          | Multi points touch, max. up to 10 points (Pcap) / Single touch (Resistive)                    |
|                       | Durability            | >100 000 000 times (PCap) / 35 milion clicks@ 250g (Resistive)                                |
|                       | Surface hardness      | Glass, Mohs 6H hardness (PCap) / PET film laminated, flat design (Resistive)                  |
|                       | Special treatment     | Anti-fingerprint (PCap)                                                                       |
| 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     | 422.3 * 353 * 57.5 (mm)                                                                       |
|                       | Cut-out dimension     | 411 * 342 (mm)                                                                                |
|                       | Net weight            | 6.2 KG                                                                                        |
|                       | IP protection         | Front Panel IP65                                                                              |
| Power & Environmental | Operating temp.       | 0 ~ +50°C                                                                                     |
|                       | Storage temp.         | -20 ~ +60°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                                                                                |

## Dimensions (mm)



## Ordering info.

| Part no.                 | Description                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| PPC-DS190-E1-CT          | 19.0", 1280 * 1024, Celeron J6412, Quad-core 2.0Ghz, Pcap. touch, 2*GLAN, 3*USB3.0, 3*USB2.0, 2*COM, 2*HDMI, DC 12V, PSU     |
| PPC-DS190-E1-RT          | 19.0", 1280 * 1024, Celeron J6412, Quad-core 2.0Ghz, Resistive touch, 2*GLAN, 3*USB3.0, 3*USB2.0, 2*COM, 2*HDMI, DC 12V, PSU |
| -4G / -8G / -16G / -32G  | SO-DIMM, DDR4, 4GB/8G/16GB/32GB Memory                                                                                       |
| -128GS / -256GS / -512GS | M.2 SSD: <a href="#">128GB/256GB/512GB</a>                                                                                   |
|                          | 2.5" SATA SSD: <a href="#">64GB/128GB/256GB/512GB/1TB</a>                                                                    |
|                          | 2.5" HDD: <a href="#">2TB/4TB</a>                                                                                            |
| TBOX-WIFI                | Wi-Fi module, with Antenna                                                                                                   |
| TBOX-WIBlu               | Wi-Fi with BT integrated module, with Antenna                                                                                |
| EM06-E-PCKit             | All network 4G/LTE module, With Antenna                                                                                      |
|                          | 5G module, with Antenna                                                                                                      |
| TBOX-9-36V               | Optional 9-36V DC wide voltage input module with mains adaptor included                                                      |
| TBOX-SIMSL0T             | Sim card slot for 3G/4G/5G wireless expansion, accepts full size (2FF) SIM cards                                             |

## Packing List

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

