



# STAR 12.1" PPC

12.1" Fanless Panel PC with  
Intel® Elkhart Lake ATOM® 6000 series Processor

## ■ Features:

- 12.1" LCD with Resistive touch screen
- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- 1 x DDR4 SODIMM, Max. 32GB
- 2 x 2.5GbE, 4 x COM, DVI, HDMI, 4 x USB
- Wide Range 9~36V DC input
- Aluminum housing

## ■ Specifications :

|                             |                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motherboard                 | 3i640CW                                                                                                                                                                   |
| CPU                         | Intel® Elkhart Lake ATOM x6413E Quad Core 3.0 GHz CPU<br>Intel® Elkhart Lake Celeron J6412 Quad Core 2.6 GHz CPU                                                          |
| Chipset                     | Intel® Elkhart Lake SoC                                                                                                                                                   |
| Memory                      | 1 x DDR4 SODIMM, Max. 32GB                                                                                                                                                |
| Storage                     | SSD, M.2                                                                                                                                                                  |
| Expansion slots             | 1 x M.2 B Key Type3042 (SATA / USB 2.0 / USB 3.0)<br>1 x M.2 B Key Type2242 (PCIe x2 / USB 2.0), support NVMe<br>1 x Mini PCIe (USB 2.0 / PCIe)<br>1 x Mini SIM           |
| I/O ports                   | Network 2 x Intel 2.5 GbE<br>USB 2 x USB 3.0<br>2 x USB 2.0<br>Serial ports 2 x RS232 / 422 / 485<br>2 x RS232<br>Display 1 x DVI, 1 x HDMI<br>HD Audio Line-out / Mic-in |
| Optional Modules & Function | 4G / 5G, Wifi 6, Bluetooth, Digital I/O<br>*HDD Kit, *VESA Mount Kit<br>*External power adapter                                                                           |
| ■ <b>Certification</b>      | CE / FCC                                                                                                                                                                  |
| OS Support                  | Windows® 11 IOT , Windows® 10 IOT<br>Ubuntu 22.04 above, Fedora 36 above                                                                                                  |

## ■ Mechanical

|            |                                                                   |
|------------|-------------------------------------------------------------------|
| Dimensions | 323.5W x 268D x 54H mm                                            |
| Weight     | 3.4 kg                                                            |
| Mounting   | Support Panel Mount / Wall mount<br>VESA mount & Stand (optional) |

## ■ Power

|          |                                                 |
|----------|-------------------------------------------------|
| DC input | +9~36V                                          |
| AC input | External adapter 100 / 240V<br>AC-DC (optional) |

## ■ LCD Display & Touch

|                   |                         |
|-------------------|-------------------------|
| Display Type      | 12.1 inch 4:3           |
| Max. Resolution   | 1024 x 768              |
| Viewing Angle     | 80(U) 80(D) 80(R) 80(L) |
| Luminance (cd/m2) | 500                     |
| Contrast Ratio    | 700:1                   |
| Touch Type        | Resistive Touch Screen  |

## ■ Environment

|                                      |                            |
|--------------------------------------|----------------------------|
| Operating Temp.<br>(100 % CPU usage) | -20°C to +60°C with SSD    |
| Storage Temp.                        | -20°C to +70°C             |
| Relative Humidity                    | 95% @ 40°C, non-condensing |
| IP Rating                            | Front panel IP65 Compliant |

## ■ Dimension

