



# TERA 2I640CW

Compact Fanless Embedded Computer  
with Elkhart Lake ATOM® X6413E  
/ J6412 Processor

## Features:

- Elkhart Lake ATOM® X6413E / J6412 CPU
- On Board LPDDR4 4 / 8GB
- Multiple Independent display: 2 x HDMI or DP
- 2 x Intel 2.5 GbE LAN, 2 x USB 3.0, 2 x USB 2.0, 4 x COM
- 1 x M.2, 1 x Nano SIM, 1 x Mini PCIe, 4DI / 4DO

## Specifications :

|                                 |                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motherboard                     | 2I640CW                                                                                                                                                                  |
| 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                          | On Board LPDDR4 4 / 8GB                                                                                                                                                  |
| Storage                         | M.2, SSD                                                                                                                                                                 |
| Expansion slots                 | 1 x M.2 B Key Type3042<br>(USB 2.0 / SATA / USB 3.0-optional to PCIe x2)<br>1 x Nano SIM<br>1 x Mini PCIe (USB 2.0 / PCIe)                                               |
| I/O ports                       | Network 2 x Intel 2.5 GbE I225 / I226<br>USB 2 x USB 3.0, 2 x USB 2.0<br>Serial ports 1 x RS232 / 422 / 485 ;<br>3 x RS232<br>DIO 4DI / 4DO (option)<br>Display 2 x HDMI |
| Optional Modules<br>& Accessory | 4G / 5G LTE, M.2 Module<br>*VESA Mounting Kit                                                                                                                            |
| OS Support                      | Windows® 10 IOT, Windows® 11 IOT<br>Ubuntu 22.04 above, Fedora 36 above                                                                                                  |

## Mechanical

|            |                          |
|------------|--------------------------|
| Dimensions | 145W x 102.4D x 56.5H mm |
| Weight     | 0.9 kg                   |
| Mounting   | VESA Mount*              |

## Power

|          |                             |
|----------|-----------------------------|
| DC input | Wide Range +9~24V           |
| AC input | External adapter 100 / 240V |

## Environment

|                                      |                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Operating Temp.<br>(100 % CPU usage) | -20°C to +60°C (X6413E) ; -40°C by OEM Option<br>0°C to +60°C (J6412)<br>*With wide range temperature memory & storage |
| Storage Temp.                        | -40°C to +70°C                                                                                                         |
| Relative Humidity                    | 95% @ 40°C, non-condensing                                                                                             |

## Dimension

