

# EMP-520 Series

14th Gen Intel® Core™ Ultra 7/5-Based  
Advanced Compact Box PC



## Features

- 14th Gen. Intel® Core™ Ultra 7/5 Processors (Meteor Lake-H/U)
- DDR5-5600MHz up to 96GB (48GB per DIMM)
- 4x independent displays support EDID Emulation
- 2x 2.5GbE, 1x COM, 6x USB ports, Type C Thunderbolt (optional)
- 2 x Wi-Fi/BT/LTE antenna holes
- M.2 2280 (SSD), M.2 3042 (LTE), M.2 2230 (Wi-Fi/BT)
- VESA mount (optional)

## Software Support

- Windows 11 IoT (64-bit)
- Linux Ubuntu (64bit) by request

## Optional Accessories

- M.2 SSD  
128GB (default)  
256GB
- Wireless Module  
Wi-Fi kit (w/ antenna)  
LTE kit (w/ antenna)
- AC/DC Adapter, 120W

## Ordering Information

| Model           | CPU                  | Memory  | Storage |
|-----------------|----------------------|---------|---------|
| EMP-520-Ultra 7 | Intel® Core™ Ultra 7 | 1 x 8GB | 128GB   |
| EMP-520-Ultra 5 | Intel® Core™ Ultra 5 | 1 x 8GB | 128GB   |

# Specifications

| Model Name            | EMP-520 Series                                                                                                                                                                                |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>         |                                                                                                                                                                                               |
| Processor             | 14th Gen. Intel® Core™ Ultra 7/5 Processors (Meteor Lake-H/U)                                                                                                                                 |
| GPU                   | Intel® Xe-LPG                                                                                                                                                                                 |
| TDP                   | 28W with fan                                                                                                                                                                                  |
| TPM                   | fTPM 2.0                                                                                                                                                                                      |
| Memory                | 2 x 262-pin SO-DIMM DDR5-5600MHz up to 96GB (48GB per DIMM)                                                                                                                                   |
| <b>I/O Interface</b>  |                                                                                                                                                                                               |
| Display               | 4x HDMI 2.0, Maximum resolution 3840 x 2160 @ 60Hz, support EDID Emulation                                                                                                                    |
| Ethernet              | 2x 2.5GbE LAN (RJ-45): i226LM Support Intel® AMT                                                                                                                                              |
| Serial Ports          | 1x RS-232                                                                                                                                                                                     |
| USB                   | 4x USB2.0 + 2x USB 3.2 Gen.1 (Type-A)                                                                                                                                                         |
| Audio                 | 1x Headphone (Line-out and MIC-in)                                                                                                                                                            |
| Buttons               | 1x Power button with LED, 1 x Clear EDID                                                                                                                                                      |
| Power Connector       | 1 x DC Jack with lock                                                                                                                                                                         |
| <b>Expansions</b>     |                                                                                                                                                                                               |
| M.2                   | 1x M.2 2280 NVMe (PCIe x4) Key-M for optional storage device<br>1x M.2 3042 (PCIe+USB3.2 Gen.1) Key-B for optional LTE module<br>1x M.2 2230 (PCIe+USB2.0) Key-E for optional Wi-Fi/BT module |
| <b>Mechanical</b>     |                                                                                                                                                                                               |
| Dimensions            | 211 (W) x 115 (D) x 35 (H) mm                                                                                                                                                                 |
| Weight                | 2.5 kg                                                                                                                                                                                        |
| Mounting              | Wall mount(default)/ VESA mount (option)                                                                                                                                                      |
| <b>Power Supply</b>   |                                                                                                                                                                                               |
| DC Input              | 12V DC                                                                                                                                                                                        |
| <b>Environmental</b>  |                                                                                                                                                                                               |
| Operating Temperature | Standard: 0°C - 45°C with fan                                                                                                                                                                 |
| Storage Temperature   | -10 to 55°C                                                                                                                                                                                   |
| Humidity              | ~95% @ 40°C (104°F) (non-condensing)                                                                                                                                                          |
| Vibration             | Operating: 3 Grms, 5-500 Hz, 3 axes (w/ SSD)                                                                                                                                                  |
| Shock                 | Operating: 50 Grms, half sine 11ms duration (w/ SSD)                                                                                                                                          |
| ESD                   | Contact ±4KV, Air ±8KV                                                                                                                                                                        |
| Certification         | CE/UKCA/FCC Class B, UL/CB 62368-1                                                                                                                                                            |



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