EMP-520 Series

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



Features

- 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)
- With fan (Default), fanless version (Optional)
- VESA mount (optional)

Software Support

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

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

Optional Accessories

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

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Specifications

Model Name	EMP-520 Series
System	
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)
I/O Interface	
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
Expansions	
M.2	1x M.2 2280 NVMe (PCIe x4) Key-M for optional storage device 1x M.2 3042 (PCIe+USB3.2 Gen.1) Key-B for optional LTE module 1x M.2 2230 (PCIe+USB2.0) Key-E for optional Wi-Fi/BT module
Mechanical	
Dimensions	211 (W) x 115 (D) x 35 (H) mm
Weight	2.5 kg
Mounting	Wall mount(default)/ VESA mount (option)
Power Supply	
DC Input	12V DC
Environmental	
Operating Temperature	Standard: 0°C - 60°C with fan (0°C - 50°C fanless)
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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