

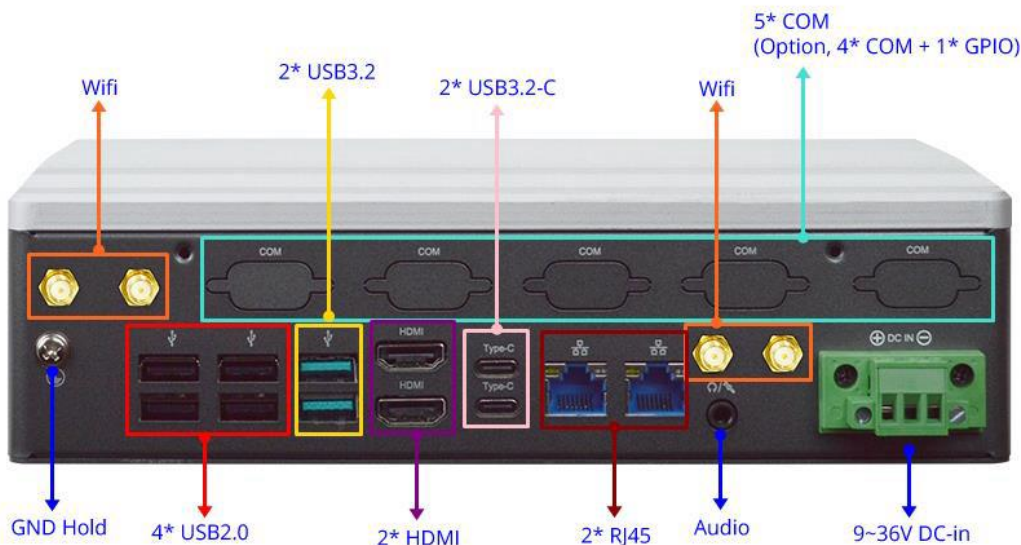
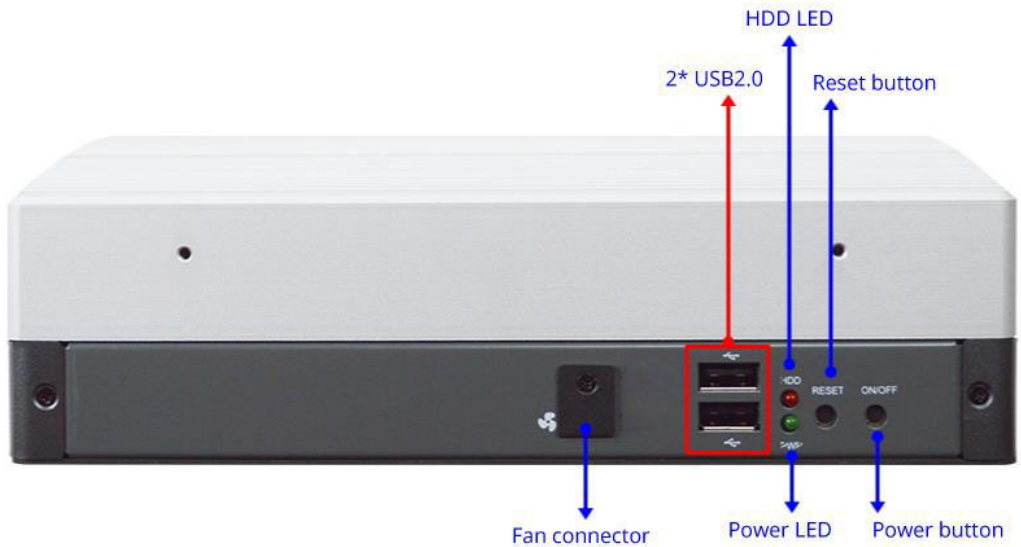
# HB650I24

## Fanless Industrial Embedded Barebone 13th gen i5-1335UE / 4 Displays / 12-36V



### Features

- Fanless Embedded Barebone System with Planned Lifecycle Through Q1'2038
- Intel Core i5-1335UE, Ten-core (2P+8E), Raptor Lake-P
- Using 8GB/16GB Modules Max 32GB DDR5-5200
- Using 32GB Modules Max 64GB DDR5-4400
- 4 \* 4K Displays, 2 \* HDMI, 2 \* USB-C (DP)
- 2 \* Intel 2.5GbE, 1 \* M.2 PCIE 4.0 x4 NVME
- 1 \* M.2 SATA, M.2 for WIFI, M.2 with SIM for Cellular
- 4 \* USB 3.2 Gen2, 6 \* USB 2.0, up to 5 \* Serial
- Watchdog Timer, Optional Ext Fan Connector
- 12 -36V DC-In, 120W AC Adapter
- Includes Wall and Din Rail Mounting Brackets



<b>Model</b>	<ul style="list-style-type: none"> <li>■ HB650I24</li> </ul>
<b>Part No</b>	<ul style="list-style-type: none"> <li>■ HB650I24-1335UE</li> <li>■ HB650I24I-1335UE (WIFI)</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>■ Fanless Intel Core i5-1335UE, ten-core (2P+8E), Raptor Lake-P, vPro Essentials</li> <li>■ *CPU options available Celeron, i3, i5, i7</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>■ 2 * DDR5 SO-DIMM slots</li> <li>■ *Using 8GB or 16GB module then up to 32GB DDR5-5200</li> <li>■ **Using 32GB module then up to 64GB DDR5-4400</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ 1 * M.2 M-key 2242/2280 PCIE 4.0 x4 NVME</li> <li>■ 1 * M.2 M-key 2242 SATA</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>■ 1 * Intel i225/i226-V 2.5GbE, 1 * Intel i225/i226-LM 2.5GbE</li> <li>■ WIFI Model: includes M.2 AC-WIFI+BT installed</li> <li>■ Non-WIFI Model: open M.2 E-key 2230 slot (USB2/PCIE/CNVI)</li> <li>■ M.2 3042/3052 B-key with Nano SIM (USB3/USB2/PCIE)</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>■ AHCI, Watchdog Timer 10-255 min/sec., AT/ATX Power Mode, Optional Onboard TPM2 IC</li> </ul>
<b>Front Panel I/O</b>	<ul style="list-style-type: none"> <li>■ Power, Reset, LEDs</li> <li>■ 2 * USB 2.0 ports</li> <li>■ Fan connector for 120mm external fan (fan optional)</li> </ul>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * USB 3.2 Gen2 ports Type-A (10Gb/s), 4 * USB 2.0</li> <li>■ Up to 4 * displays, 2 * HDMI 2.0b 4K@60Hz, 2 * USB-C (DP 1.4a ALT mode 4K@60Hz)</li> <li>■ 2 * RJ45</li> <li>■ Line-out/Mic Combo jack</li> <li>■ 12V - 36V DC-in 3-pin Phoenix Terminal block</li> <li>■ 4 * Antenna holes, 5 * DB9 punchouts (up to 5 * Serial or 4 * serial + 1 * GPIO)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>■ AMI Flash ROM with Intel PTT (TPM 2.0 emulation)</li> </ul>
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>■ 120W 19V AC Adapter, US Power Cord, Wall/DIN Mount Brackets, Antenna (WIFI model)</li> </ul>
<b>Compliance</b>	<ul style="list-style-type: none"> <li>■ CE, FCC, RoHS, ErP Ready</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operating Temperature -20 ~ 60° C</li> <li>■ Storage Temperature -40 - 85° C</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>■ 199 x 224 x 63mm (DxWxH)</li> </ul>
<b>OS Support</b>	<ul style="list-style-type: none"> <li>■ Windows 10 64bit, Windows 11 64bit , Linux</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>■ 2 Years limited warranty</li> </ul>

\*Specifications subject to change without notice, not responsible for typographical errors. Does not include memory, HDD, optical, or OS.



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