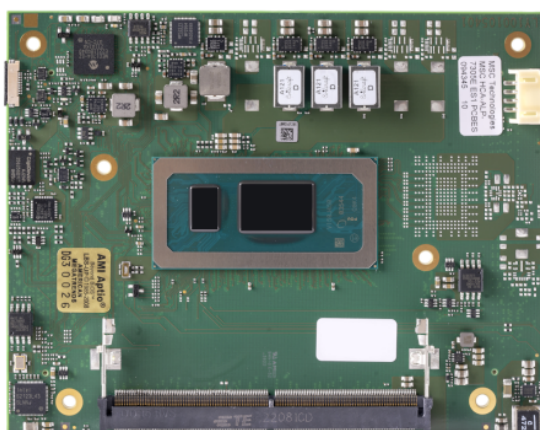


## TRIA HCA-RLP

Intel® Core™ 13th Generation

120 x 95



23 / 62 W

-40 +85

COM+HPC®



## Highlights

- COM-HPC Client module, Size A
- 13th Gen Intel® Core™ processors
- Scalable CPU performance
- Up to fourteen cores, twenty threads
- Industrial grading options (Intel® TCC, TSN, IBEC, ext. Temp., 24/7)
- Up to 64GB DDR5-5200 SDRAM, dual channel
- Intel® Iris® Xe architecture Graphics, up to 96 EUs
- Three DisplayPort/HDMI interfaces
- Embedded DisplayPort interface
- Up to four independent displays
- PCI Express® Gen 3, up to 8 lanes, PCI Express® Gen 4, up to 2x4
- PEG 1x8, PCIe Gen 4/5 (optional)
- Two USB4, two USB 3.2 Gen2, eight USB 2.0 ports
- Two UARTs
- Optional on-board NVMe SSD, up to 256GB
- Optional two SATA 6Gb/s mass storage interfaces
- Two 1 / 2.5 Gb Ethernet ports (Intel® i226)
- Trusted Platform Module TPM 2.0
- Long-term product availability

## Technical Data

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technology</b>         | x86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formfactor</b>         | COM-HPC Size A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CPU</b>                | <p>13th Gen Intel® Core™ processors</p> <p>H-series</p> <p>Intel® Core™ i7-13800HE 6P+8E/20T, 2.5GHz, 96 EUs, 24MB L3, 45/35W cTDP</p> <p>Intel® Core™ i7-13800HRE 6P+8E/20T, 2.5GHz, 96 EUs, 24MB L3, 45/35W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i5-13600HE 4P+8E/16T, 2.7GHz, 80 EUs, 18MB L3, 45/35W cTDP</p> <p>Intel® Core™ i5-13600HRE 4P+8E/16T, 2.7GHz, 80 EUs, 18MB L3, 45/35W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i3-13300HE 4P+4E/12T, 2.1GHz, 48 EUs, 12MB L3, 45/35W cTDP</p> <p>Intel® Core™ i3-13300HRE 4P+4E/12T, 2.1GHz, 48 EUs, 12MB L3, 45/35W cTDP, TCC/TSN, IBEC, ET</p> <p>P-series</p> <p>Intel® Core™ i7-1370PE 6P+8E/20T, 1.9GHz, 96 EUs, 24MB L3, 28/20W cTDP</p> <p>Intel® Core™ i7-1370PRE 6P+8E/20T, 1.9GHz, 96 EUs, 24MB L3, 28/20W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i5-1350PE 4P+8E/16T, 1.8GHz, 80 EUs, 12MB L3, 28/20W cTDP</p> <p>Intel® Core™ i5-1350PRE 4P+8E/16T, 1.8GHz, 80 EUs, 12MB L3, 28/20W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i5-1340PE 4P+8E/16T, 1.8GHz, 80 EUs, 12MB L3, 28/20W cTDP</p> <p>Intel® Core™ i3-1320PE 4P+4E/12T, 1.7GHz, 48 EUs, 12MB L3, 28/20W cTDP</p> <p>Intel® Core™ i3-1320PRE 4P+4E/12T, 1.7GHz, 48 EUs, 12MB L3, 28/20W cTDP, TCC/TSN, IBEC, ET</p> <p>U-series</p> <p>Intel® Core™ i7-1365UE 2P+8E/12T, 1.7GHz, 96 EUs, 12MB L3, 15/12W cTDP</p> <p>Intel® Core™ i7-1365URE 2P+8E/12T, 1.7GHz, 96 EUs, 12MB L3, 15/12W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i5-1345UE 2P+8E/12T, 1.4GHz, 80 EUs, 12MB L3, 15/12W cTDP</p> <p>Intel® Core™ i5-1345URE 2P+8E/12T, 1.4GHz, 80 EUs, 12MB L3, 15/12W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Core™ i5-1335UE 2P+8E/12T, 1.3GHz, 80 EUs, 12MB L3, 15/12W cTDP</p> <p>Intel® Core™ i3-1315UE 2P+4E/8T, 1.2GHz, 64 EUs, 10MB L3, 15/12W cTDP</p> <p>Intel® Core™ i3-1315URE 2P+4E/8T, 1.2GHz, 64 EUs, 10MB L3, 15/12W cTDP, TCC/TSN, IBEC, ET</p> <p>Intel® Processor U300E 1P+4E/6T, 1.1GHz, 48 EUs, 8MB L3, 15/12W cTDP</p> <p>Note: P core base frequency at nominal TDP shown, other clock frequencies supported</p> |
| <b>Chipset</b>            | Integrated into SoC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RAM</b>                | 2x 262-pin SO-DIMM socket for up to 2x 32GB DDR5 SDRAM (DDR5-5200); dual channel operation; minimum capacity 1x 8GB single channel operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Interfaces</b> | 2x SATA channels (up to 6Gb/s), optional<br>optional on-board NVMe, 128GB, 256GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>USB</b>                | 2x USB4 on COM-HPC USB[0:1]_SSTX/RX<br>2x USB 3.2 (Gen 1 & 2) on COM-HPC USB[2:3]_SSTX/RX<br>8x USB 2.0 on COM-HPC USB[0:7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Serial Interfaces</b>  | 2x high-speed serial ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bus Interfaces</b>     | <p>PCI Express® Graphics (PEG) 1x8, PCIe Gen 4/5 on COM-HPC PCIe[16:23]<sup>1</sup></p> <p>PCI Express® Gen 4, up to 2x4 on COM-HPC PCIe[8:15]</p> <p>PCI Express® Gen 3, up to 8 lanes, flexible bifurcation options on COM-HPC PCIe[0:7]</p> <p><sup>1</sup> Available on H-series processors</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Display Controller</b> | Intel® Iris® Xe architecture Graphics, Up to 96 execution units (EU)<br>H.264/AVC, H.265/HEVC, AV1, MJPEG encode/decode/transcode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Display Interfaces</b> | <p>Four independent display streams</p> <p>3x Digital Display Interface (DP 1.4a, HDMI 2.0b)</p> <p>1x Embedded DisplayPort 1.4b</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                           |                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network Interface</b>  | Two 10/100/1000Base-TX, 2.5G <sup>2</sup> based on Intel i226, TSN support<br><sup>2</sup> Available bandwidths depending on carrier design<br>I-Temp variants: Intel® i226-IT<br>C-Temp variants: Intel® i226-LM                                                                                                                                                    |
| <b>Audio Interface</b>    | High Definition Audio, optional Soundwire and I2S                                                                                                                                                                                                                                                                                                                    |
| <b>Security Device</b>    | TPM 2.0                                                                                                                                                                                                                                                                                                                                                              |
| <b>Miscellaneous</b>      | Watchdog Timer:<br>Initiates system reset, programmable<br><br>Fan Supply:<br>4-pin header for CPU fan, PWM speed controlled<br>and PWM speed control for system fan supported<br><br>RTC battery:<br>external<br><br>System Monitoring:<br>voltage, temperature, CPU fan, system fan                                                                                |
| <b>Feature Highlights</b> | COM-HPC Client, Size A                                                                                                                                                                                                                                                                                                                                               |
| <b>Firmware</b>           | UEFI Firmware:<br>AMI Aptio® V<br><br>Security:<br>TPM 2.0 support, TCG compliant<br><br>Power Management:<br>ACPI<br>Active fan control<br><br>USB:<br>USB legacy support (keyboard, mouse, storage)<br><br>Monitoring:<br>System Monitoring<br>Health Monitoring<br><br>Tria Adv. Boot Device Selection: Boot device priority setting based on physical interfaces |
| <b>OS Support</b>         | Windows 11 IoT Enterprise LTSC 2024<br>BSP for Linux (Yocto)                                                                                                                                                                                                                                                                                                         |
| <b>Power Requirement</b>  | Voltage:<br>+8V to +20V, +5V Stby optional, +3V RTC voltage<br><br>Power Consumption:<br>23 W to 62 W (typ., variant dependent)                                                                                                                                                                                                                                      |
| <b>Environment</b>        | Ambient Temperature:<br>0° ... 60°C (operating)<br>-25° ... 85°C (storage)<br>Extended temp. variants: -40 ... +85°C (operating)<br><br>Humidity:<br>5 ... 95% (operating, non-condensing),<br>5 ... 95% (storage, non-condensing)                                                                                                                                   |
| <b>Dimensions</b>         | 120 x 95                                                                                                                                                                                                                                                                                                                                                             |

Technical Data for TRIA HCA-RLP

## Order Reference

| Order No. | Description                                                                                                                                                                                                                                                                                                                                                                  | Reference                           | Status* |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| 113950    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i7-13800HE 14C/20T, vPro, 2.1GHz, 45/35W cTDP; Graphics: Intel® Iris® Xe 96 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-LM Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PEG x8 Gen 4, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5; 0...+60°C.                                                 | MSC HCA-RLP-13800HE-NN0131C PCBFTX  | OR      |
| 113946    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i5-13600HE 12C/16T, vPro, 2.1GHz, 45/35W cTDP; Graphics: Intel® Iris® Xe 80 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-LM Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, 2x SATA, PEG x8 Gen 4, PCIe Gen 4 2x4, PCIe Gen 3 6x; 2x socket for DDR5; 0...+60°C.                                        | MSC HCA-RLP-13600HE-NN0121C PCBFTX  | PV      |
| 113942    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i3-13300HE 8C/12T, 2.1GHz, 45/35W cTDP; Graphics: Intel® UHD Graphics 48 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-LM Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, 2x SATA, PEG x8 Gen 4, PCIe Gen 4 2x4, PCIe Gen 3 6x; 2x socket for DDR5; 0...+60°C.                                           | MSC HCA-RLP-13300HE-NN0121C PCBFTX  | PV      |
| 113938    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i5-1350PE 12C/16T, vPro, 1.8GHz, 28/20W cTDP; Graphics: Intel® Iris® Xe 80 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-LM Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5; 0...+60°C.                                                                | MSC HCA-RLP-1350PE-NN0131C PCBFTX   | OR      |
| 113932    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i3-1320PE 8C/12T, 1.7GHz, 28/20W cTDP; Graphics: Intel® UHD Graphics 48 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-LM Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5; 0...+60°C.                                                                   | MSC HCA-RLP-1320PE-NN0131C PCBFTX   | OR      |
| 113948    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i5-13600HRE 12C/16T, vPro, 1.9GHz, 45/35W cTDP; Graphics: Intel® Iris® Xe 80 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PEG x8 Gen 4, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation. | MSC HCA-RLP-13600HRE-NN0131I PCBFTX | PV      |
| 113944    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i3-13300HRE 8C/12T, 2.1GHz, 45/35W cTDP; Graphics: Intel® UHD Graphics 48 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PEG x8 Gen 4, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation.    | MSC HCA-RLP-13300HRE-NN0131I PCBFTX | PV      |
| 113940    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i5-1350PRE 12C/16T, vPro, 1.8GHz, 28/20W cTDP; Graphics: Intel® Iris® Xe 80 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation.                | MSC HCA-RLP-1350PRE-NN0131I PCBFTX  | OR      |
| 113934    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i3-1320PRE 8C/12T, 1.7GHz, 28/20W cTDP; Graphics: Intel® UHD Graphics 48 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation.                   | MSC HCA-RLP-1320PRE-NN0131I PCBFTX  | PV      |

| Order No. | Description                                                                                                                                                                                                                                                                                                                                                   | Reference                          | Status* |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|
| 113936    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i5-1345URE 10C/12T, vPro, 1.4GHz, 15/12W cTDP; Graphics: Intel® Iris® Xe 80 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation. | MSC HCA-RLP-1345URE-NN0131I PCBFTX | OR      |
| 113930    | COM-HPC Client Size A module (120mm x 95mm); CPU: Intel i3-1315URE 6C/8T, 2.5GHz, 15/12W cTDP; Graphics: Intel® UHD Graphics 64 EUs; 3x DP/HDMI; 1x eDP; HD Audio; Ethernet: 2x Intel i226-IT Gbit, TSN; TPM 2.0; 2x USB4, 2x USB3, 8x USB2, PCIe Gen 4 2x4, PCIe Gen 3 8x; 2x socket for DDR5, in-band ECC; -40...+85°C, recommended for 24/7 operation.     | MSC HCA-RLP-1315URE-NN0131I PCBFTX | PV      |

Ordering Information for TRIA HCA-RLP

\*PV = Preferred variant; OR = on Request (in OEM quantities only)

## Accessories

### Carrier Options

| Order No. | Description                                                                                                                                                                                                                                                                                       | Reference              |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 114609    | COM-HPC Client Carrier Board with 1x PEG x16, 1x PCIe x16, 3x PCIe x4 slots; 2x USB 4 Gen 2x2, 2x USB 3.2 Gen 2x1, 2x 1G/2.5G/10GBASE-T, 2x SATA; 3x DisplayPort, 1x eDP; audio module socket; 1x M.2 socket; 24pin ATX and ATX12V power connectors; Dimensions: 305mm x 244mm (ATX form factor); | MSC HC-MB-EV<br>BRDFTX |

Carrier Options for TRIA HCA-PLH/MLH/RLP/ALP

### Cooling Options

| Order No. | Description                                                                                                                                                                                                      | Reference                 |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 79809     | Fan kit for Heatsink MSC HCA-ALP/RLP/MLH/PLH-0x HSI-xxx, MSC C6B-TLH/ALP/RLP/MLH-0x HSI-xxx, MSC C6C-WLU/TLU/ALP/RLP/PLH-0x HSI-xxx, MSC C6C-EL/ALN/ASL-0x HSI-xxx, MSC C6C-RYZx-0x HSI-xxx, PWM fan 80x80x15mm. | MSC C6C-FANKIT-01-HSF-001 |

Fan Kit for COM-HPC Heatsinks

| Order No. | Description                                                                                                                                                                                                                                                             | Reference                    |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 94875     | Passive Heatsink for HCA-ALP/RLP consisting of a singlepiece aluminum profile with fins, standoffs without thread (2.7mm inner diameter), screws and thermopads for the thermal contact to CPU, chipset, NVMe.                                                          | MSC HCA-ALP-01<br>HSI-001    |
| 94876     | Passive Heatsink / heat pipe for HCA-ALP/RLP consisting of a single-piece aluminum profile with fins and embedded heatpipe, standoffs without thread (2.7mm inner diameter), screws and thermopads for the thermal contact to CPU, chipset, NVMe.                       | MSC HCA-ALP-01<br>HSI-HP-001 |
| 94877     | Heatspreader for HCA-ALP/RLP. Single-piece aluminum profile, standoffs without thread (2.7mm inner diameter), screws and thermopads for the thermal contact to CPU, chipset, NVMe.                                                                                      | MSC HCA-ALP-01<br>HSP-001    |
| 94878     | Heatspreader / heat pipe for HCA-ALP/RLP. Single-piece aluminum profile with embedded heat pipe, standoffs without thread (2.7mm inner diameter), screws and thermopad for the thermal contact to CPU, chipset, NVMe.                                                   | MSC HCA-ALP-01<br>HSP-HP-001 |
| 112247    | Passive heatsink / heat pipe for HCA-ALP/RLP consisting of a single-piece aluminum profile with fins (rotated orientation) and embedded heatpipe, standoffs without thread (2.7mm inner diameter), screws and thermopads for the thermal contact to CPU, chipset, NVMe. | MSC HCA-ALP-02<br>HSI-HP-001 |
| 94879     | Heatspreader for HCA-ALP/RLP. Single-piece aluminum profile, standoffs with M2.5 thread, screws and thermopads for the thermal contact to CPU, chipset, NVMe.                                                                                                           | MSC HCA-ALP-02<br>HSP-001    |

Cooling Options for TRIA HCA-ALP/RLP

## Memory Options

| Order No. | Description                                      | Reference                              |
|-----------|--------------------------------------------------|----------------------------------------|
| 115233    | 8GB DDR5-5600 SO-DIMM, commercial temperature    | MOD SODIMM DDR5 8GB PC5-44800 CL22 1B  |
| 114624    | 8GB DDR5-5600 SO-DIMM, sorting wide temperature  | MOD SODIMM DDR5 8GB PC5-44800 CL22 1B  |
| 115234    | 16GB DDR5-5600 SO-DIMM, commercial temperature   | MOD SODIMM DDR5 16GB PC5-44800 CL22 1B |
| 114625    | 16GB DDR5-5600 SO-DIMM, sorting wide temperature | MOD SODIMM DDR5 16GB PC5-44800 CL22 1B |
| 115235    | 32GB DDR5-5600 SO-DIMM, commercial temperature   | MOD SODIMM DDR5 32GB PC5-44800 CL22 2B |
| 114626    | 32GB DDR5-5600 SO-DIMM, sorting wide temperature | MOD SODIMM DDR5 32GB PC5-44800 CL22 2B |

Memory Options for TRIA HCA-RLP

Tria Technologies GmbH  
Industriestr. 16  
76297 Stutensee  
info@tria-technologies.com  
tria-technologies.com

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