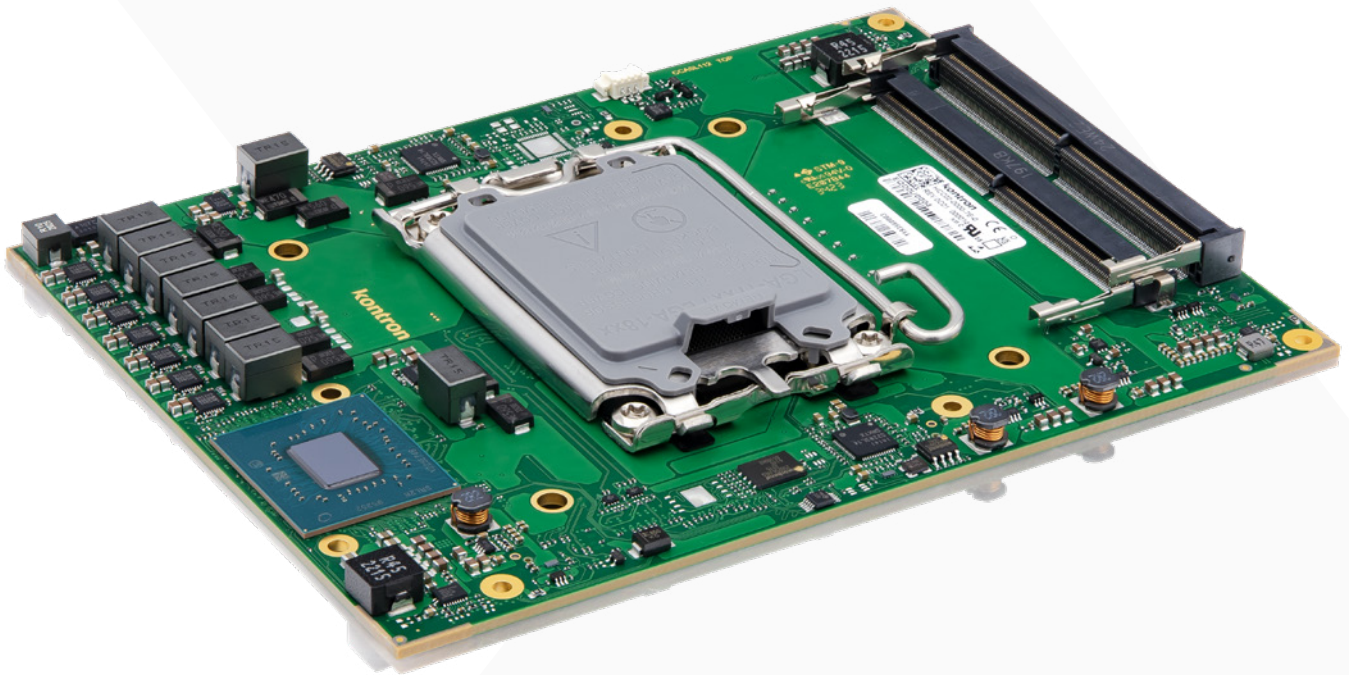
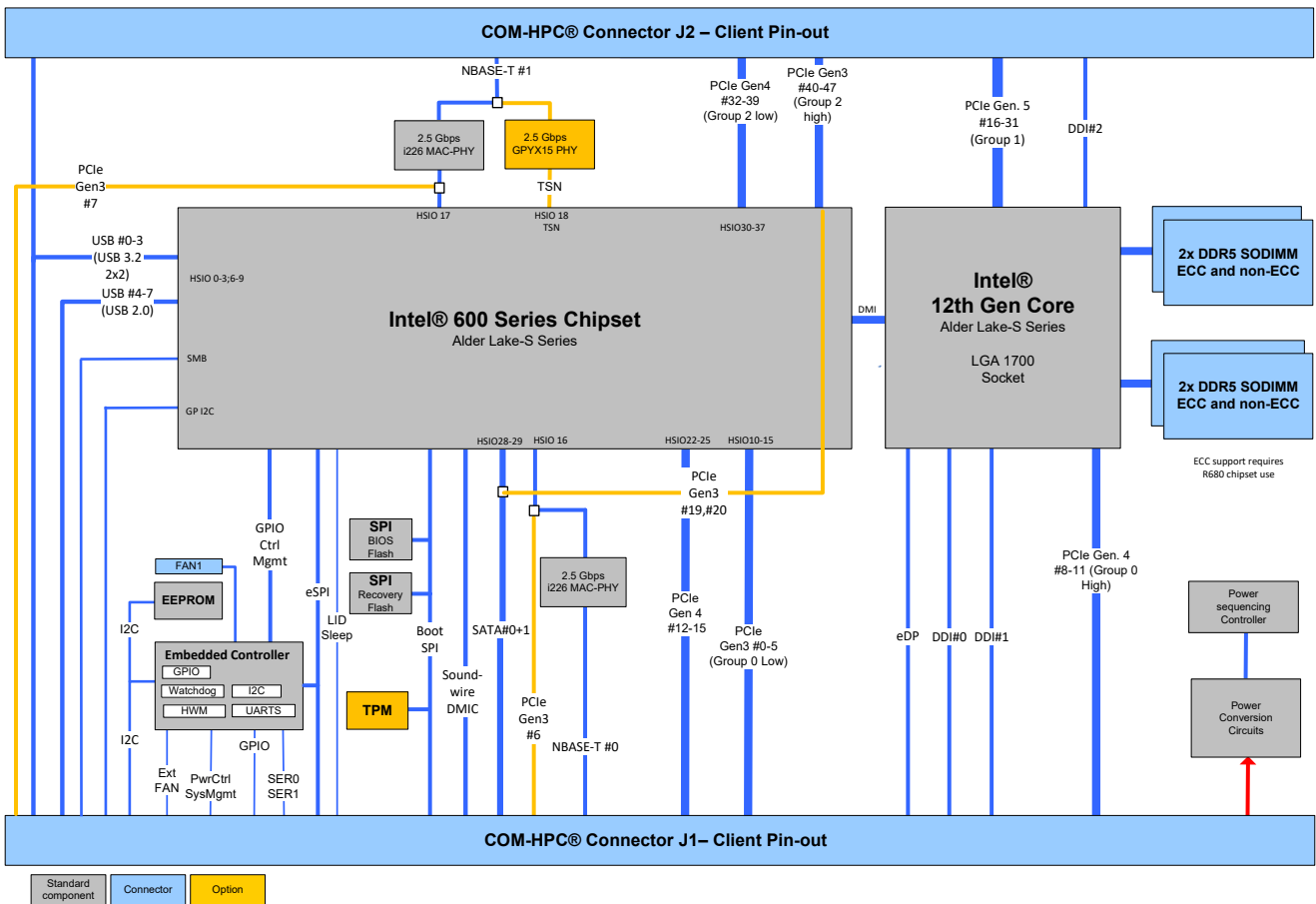




## COM-HPC Client Size C module based on the 12th, 13th Gen and 14th Intel® Core™ S processors

- Up to 16 cores (TDP range: 35 W-65 W) & 24 threads
- Memory: Max 128 GByte DDR5 via 4x SODIMMs, ECC and non-ECC
- 16x PCIe Gen 5.0 lanes (for high performance CPUs) + 8x PCIe Gen 4.0 lanes + 6x PCIe Gen 3.0 lanes
- 3x DDI + 1x eDP

|                     |                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| COMPLIANCE          | COM HPC® Size C Client                                                                                                                   |
| DIMENSIONS          | 160 x 120 mm                                                                                                                             |
| CPU (SoC)           | Intel® Core™ "Alder Lake S", Raptor Lake S" and "Raptor Lake S Refresh" Processor Series<br>For details see table "Variants" given below |
| CHIPSET             | See table                                                                                                                                |
| MAIN MEMORY         | 2x DDR5 SODIMM for up to 64 GByte ECC / non ECC<br>on request: 4x DDR5 SODIMM for up to 128 GByte ECC / non ECC                          |
| ETHERNET CONTROLLER | 2x Intel® I226 or<br>1x Intel® I226, 1x integrated MAC with GPHY215                                                                      |
| ETHERNET            | 2x 2.5 Gb Ethernet                                                                                                                       |
| STORAGE             | 2x SATA 6Gb/s                                                                                                                            |
| FLASH ONBOARD       | -                                                                                                                                        |
| PCI EXPRESS®        | 16x PCIe Gen 5.0 lanes (for high performance CPUs) + 8x PCIe Gen 4.0 lanes + 6x PCIe Gen 3.0 lanes                                       |
| USB                 | 4x (2x) USB 3.2                                                                                                                          |
| SERIAL              | 2x serial interface (RX/TX/CTS/RTS)                                                                                                      |
| OTHER FEATURES      | SPI, SMB, Fast I²C, Staged Watchdog, RTC                                                                                                 |
| SPECIAL FEATURES    | TPM 2.0                                                                                                                                  |
| FEATURES ON REQUEST | additional 3rd and 4th SODIMM socket                                                                                                     |
| POWER MANAGEMENT    | ACPI 6.0                                                                                                                                 |
| POWER SUPPLY        | 12 V ATX and/or Single Supply Power                                                                                                      |
| BIOS                | AMI UEFI                                                                                                                                 |
| OPERATING SYSTEM    | Linux, Windows 11                                                                                                                        |
| TEMPERATURE         | Commercial temperature: 0 °C to +60 °C operating<br>-30 °C to +85 °C non-operating                                                       |
| HUMIDITY            | 93 % relative Humidity at 40 °C, non-condensing (according to IEC 60068-2-78)                                                            |



## Variants

| PART NO.        | ARTICLE             | CPU       | CHIPSET |
|-----------------|---------------------|-----------|---------|
| HCC02-1410-7E-3 | COMh-ccAS i3-14100  | i3-14100  | Q670E   |
| HCC02-1451-8E-5 | COMh-ccAS i5-14501E | i5-14501E | R680E   |
| HCC02-1471-8E-7 | COMh-ccAS i7-14701E | i7-14701E | R680E   |
| HCC02-1491-8E-9 | COMh-ccAS i9-14901E | i9-14901E | R680E   |

Please contact tech support for custom UEFI firmware

## Carrier

| ARTICLE                     | PART NO.        | DESCRIPTION                                       |
|-----------------------------|-----------------|---------------------------------------------------|
| COM-HPC CLIENT CARRIER 10MM | HCT01-0000-10-0 | COM-HPC Client Carrier with 10mm Connector Height |

| ARTICLE                              | PART NO.        | DESCRIPTION                                                             |
|--------------------------------------|-----------------|-------------------------------------------------------------------------|
| COMh-ccAS HEAT SPREADER THREADED     | HCC0A-0000-99-0 | Standard COM-HPC Heat Spreader for COMh-ccAS with threads               |
| COMh-ccAS HEAT SPREADER THROUGH HOLE | HCC0A-0000-99-1 | Standard COM-HPC Heat Spreader for COMh-ccAS through hole               |
| COMh-ccAS X-BRACKET                  | HCC0A-0000-99-2 | X-Shape Bracket for Standard Motherboard Cooler                         |
| COMh-ccAS PCH COOLER                 | HCC0A-0000-99-3 | PCH Cooler for COMh-ccAS                                                |
| COMh-ccAS COOLING KIT 65W            | HCC0A-0000-99-4 | Motherboard CPU Cooler + X-Bracket + PCH Cooler                         |
| COMH-CCAS COOLER MOUNTING JACKET     | HCC0A-0000-99-5 | Needs to be used instead of X-Bracket, when 4th memory module is in use |

# Memory

| PART NO.        | MIN. SPEC. | SIZE     | ECC/NON-ECC | OP. TEMPERATURE |
|-----------------|------------|----------|-------------|-----------------|
| 97040-0848-CCAS | DDR5-4800  | 8 GByte  | No ECC      | 0 °C to +60 °C  |
| 97040-1648-CCAS | DDR5-4800  | 16 GByte | No ECC      | 0 °C to +60 °C  |
| 97040-3248-CCAS | DDR5-4800  | 32 GByte | No ECC      | 0 °C to +60 °C  |
| 97050-0848-CCAS | DDR5-4800  | 8 GByte  | ECC         | 0 °C to +60 °C  |
| 97050-1648-CCAS | DDR5-4800  | 16 GByte | ECC         | 0 °C to +60 °C  |
| 97050-3248-CCAS | DDR5-4800  | 32 GByte | ECC         | 0 °C to +60 °C  |

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