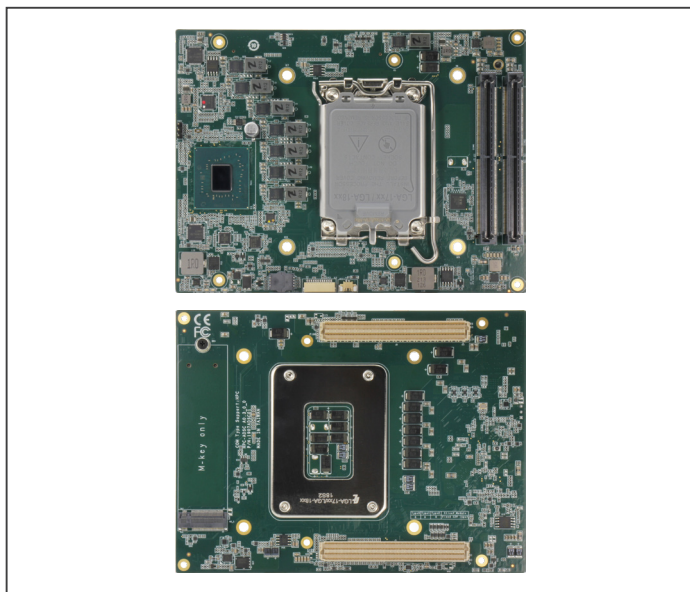


HPC-ADSC / HPC-RPSC



COM HPC Client Size C with 12th/13th/14th Gen Intel® Core™ Processors



Features

- DDR5 5600 MHz, Dual Channel SODIMM x 2, up to 64GB
- USB 2.0 x 8, USB 3.2 x 6
- PCIe [x1] x 8, PCIe [x4] x 3, PEG [x16] x 1
- Intel® I226-LM 2.5GbE x 2
- M.2 2280 M-Key x 1
- COM HPC Client Type, Size C, 6.30" x 4.72" (160mm x 120mm)



Specifications

| System | |
|-----------------------------|---|
| Form Factor | COM HPC Client Size C |
| CPU | 14th Generation Intel® Core™ Processors: Intel® Core™ i9-14900 (24C/32T, P-core 2.00 GHz, E-core 1.50 GHz, 65W) Intel® Core™ i7-14700 (20C/28T, P-core 2.10 GHz, E-core 1.50 GHz, 65W) Intel® Core™ i5-14500 (14C/20T, P-core 2.60 GHz, E-core 1.90 GHz, 65W) |
| | 13th Generation Intel® Core™ Processors: Intel® Core™ i9-13900E (24C/32T, P-core 1.80 GHz, E-core 1.30 GHz, 65W) Intel® Core™ i9-13900 (24C/32T, P-core 2.00 GHz, E-core 1.50 GHz, 65W) Intel® Core™ i7-13700E (16C/24T, P-core 1.90 GHz, E-core 1.30 GHz, 65W) Intel® Core™ i5-13500E (14C/20T, P-core 2.40 GHz, E-core 1.50 GHz, 65W) |
| | 12th Generation Intel® Core™ Processors: Intel® Core™ i9-12900E (16C/24T, P-core 2.30 GHz, E-core 1.70 GHz, 65W) Intel® Core™ i7-12700E (12C/20T, P-core 2.10 GHz, E-core 1.60 GHz, 65W) Intel® Core™ i7-12700 (12C/20T, P-core 2.10 GHz, E-core 1.60 GHz, 65W) |
| | Chipset |
| Memory | DDR5 5600 MHz, Dual Channel SODIMM x 2, up to 64GB(ECC) |
| Onboard Storage | — |
| BIOS | AMI UEFI |
| Wake on LAN | Yes |
| Watchdog Timer | 255 Levels |
| Dimension | 6.30" x 4.72" (160mm x 120mm) |
| Security | TPM 2.0 |
| Power | |
| Power Requirement | +12V and +5VSB for ATX, +12V for AT |
| Power Type | AT/ATX |
| Power Consumption (Typical) | Intel® Core™ i9-13900E, 7.13A @+12V |
| Display | |
| Graphics Controller | Intel® UHD Graphics 770 |
| Video Output | 4 Simultaneous Displays: eDP x 1, up to 3840 x 2160 @60Hz DDI x 3, up to 3840 x 2160 @144Hz |
| I/O | |
| Ethernet | Intel® Ethernet Controller I226-LM 2.5GbE x 2 |
| Audio | High Definition Audio Interface |
| USB Port | USB 2.0 x 8 USB 3.2 Type-C x 2 (20Gbps x 2) USB 3.2 Type-A x 4 (10Gbps) |
| Serial Port | 4-Wire UART x 2 (Tx/Rx) |
| HDD Interface | SATA III x 2 |

| Expansion | PEG 5.0 [x16] x 1 PCIe 4.0 [x4] x 3 PCIe 3.0 [x1] x 8 eSPI x 1 LPC x 1 M.2 2280 M-Key x 1 |
|-----------------------|--|
| | |
| GPIO | 12-bit |
| SMBus/I2C | I2C x 2, SMBus x 1 |
| Environment | |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C) |
| Storage Temperature | -40°F ~ 185°F (-40°C ~ 85°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| EMC | CE/FCC Class A |
| OS Support | Windows® 10 (64-bit) Linux Ubuntu 20.04.1/Kernel 5.15 |
| Weight | 0.66 lb. (0.30Kg) |

Packing List

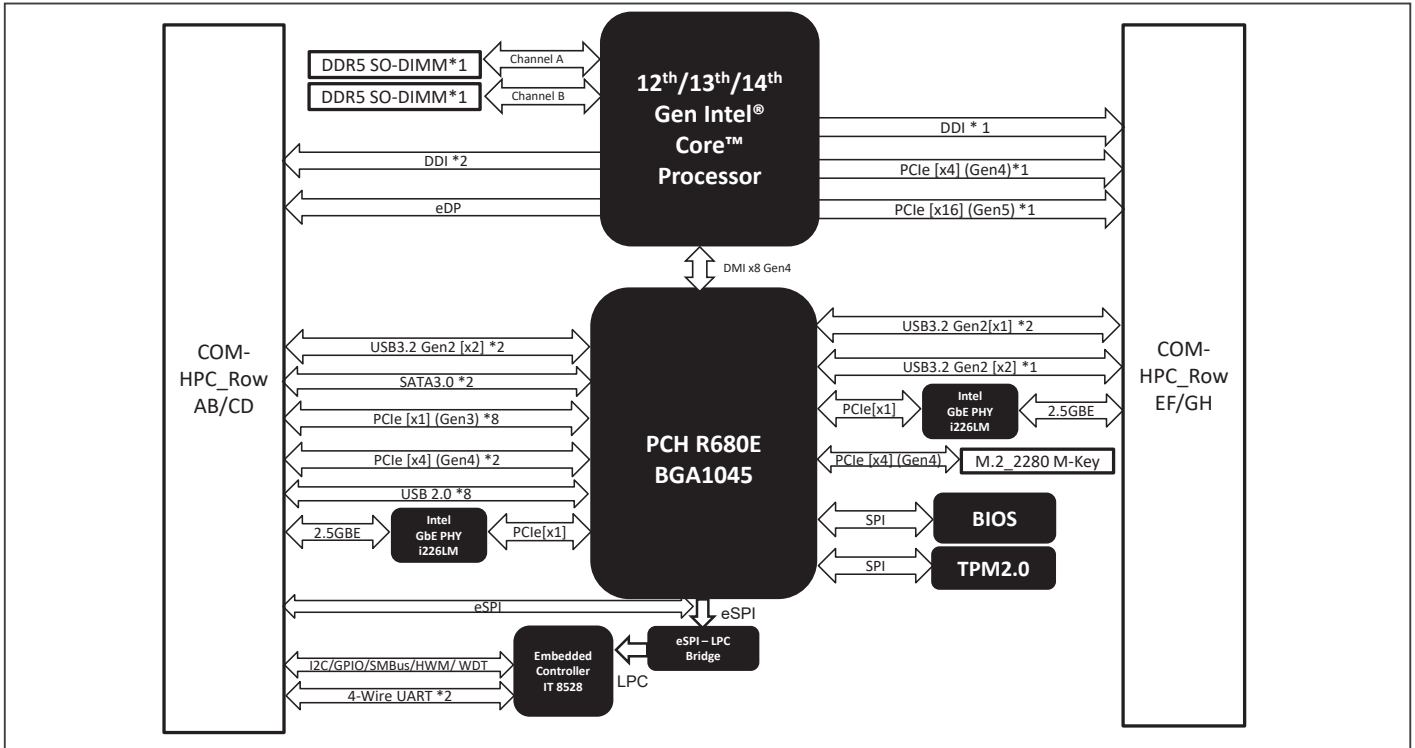
- HPC-RPSC

Optional Accessories

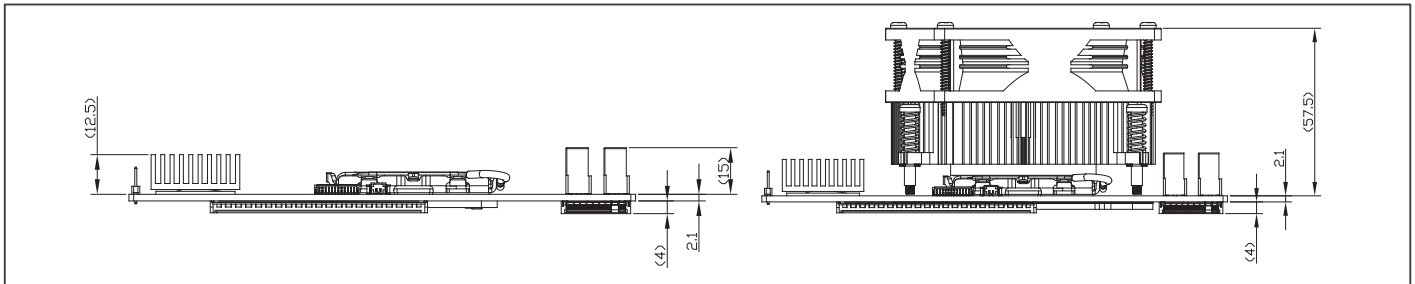
| Part Number | Description |
|-------------------|---|
| ECB-980A-A11-0001 | COM HPC Client Carrier, Size A/B/C, HDMI, DP, 2GbE, 3USB(TypeC), 2SATA, PCIe, ATX, A1.1 |
| HPC-RPSC-FAN01 | Cooler, 90mm x 90mm x 50mm, 4pin |



Block Diagram



Dimension Unit: mm



Ordering Information

| Part Number | COM Express Type | CPU | Memory | ECC support | Display | Storage | LAN | USB | UART | Expansion | Power | Temperature | Others |
|-------------------|-------------------|--|-----------------|-------------|------------------|--------------|--------------------|---|-------------------------|---|-------|-------------|-----------------------------------|
| HPC-RPSC-A11-0001 | HPC Client Size C | 12th/13th/14th Gen Intel® Core™ Series | DDR5 SODIMM x 2 | Yes | eDP x 1, DDI x 3 | SATA III x 2 | Intel® i226-LM x 2 | USB 2.0 x 8 USB 3.2 Type-C x 2 (20Gbps x 2) USB 3.2 Type-A x 4 (10Gbps) | 4-Wire UART x 2 (Tx/Rx) | PEG [x16] x 1 PCIe [x4] x 3 PCIe [x1] x 8 | 12V | 0°C ~ 60°C | LPC, GPIO 12-bit, I2C, SMBus, SPI |