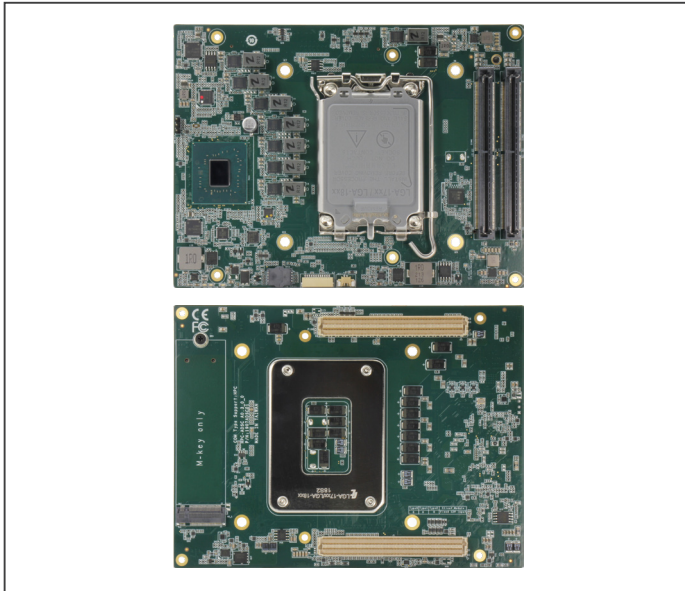




HPC-RPSC

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)



Distributed by:



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)
	Intel® R680E
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

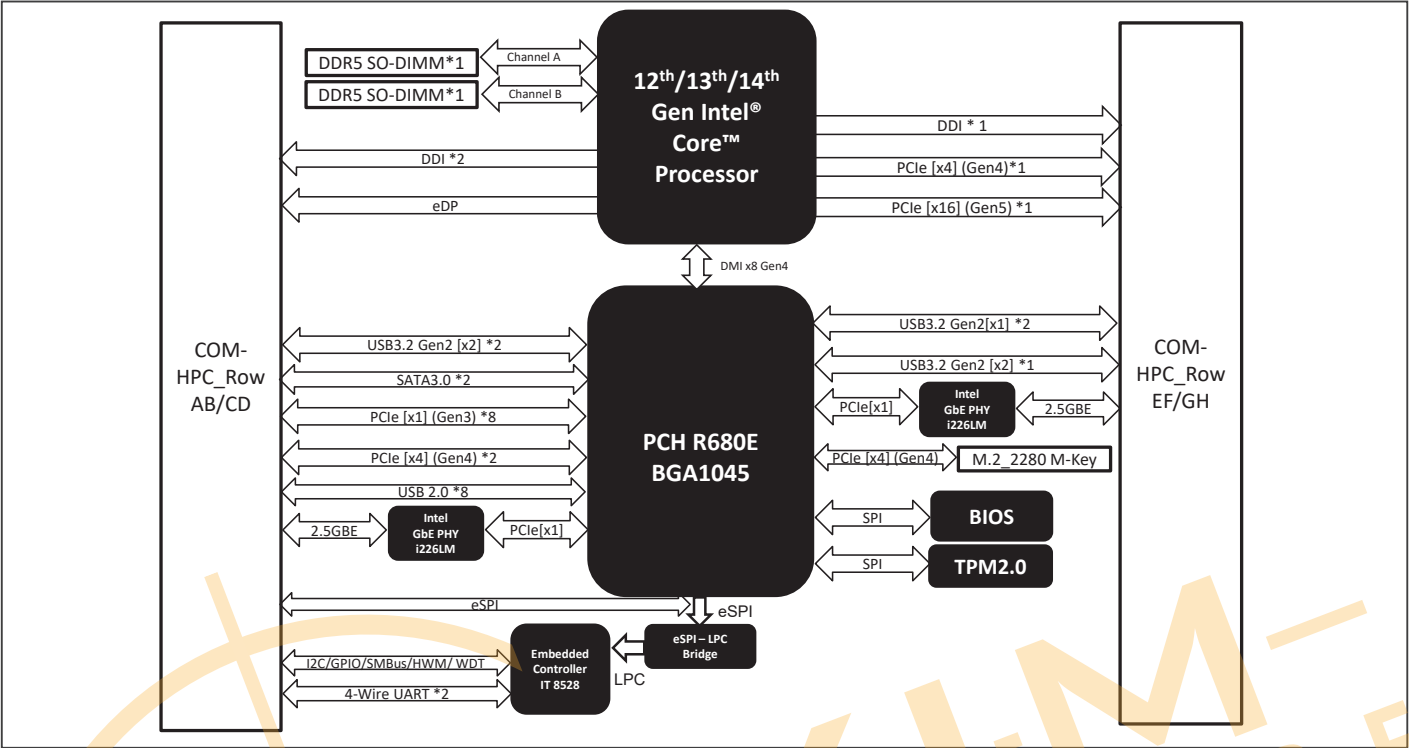
- HPC-ADSC/HPC-RPSC

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

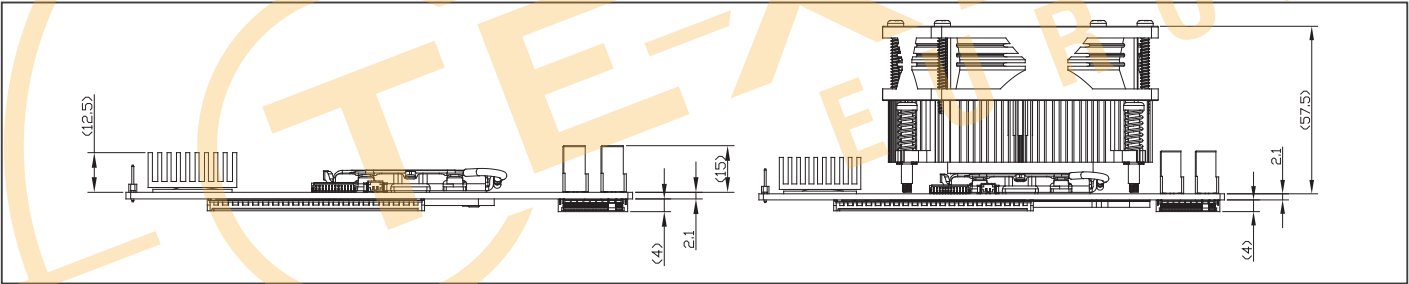


Block Diagram



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

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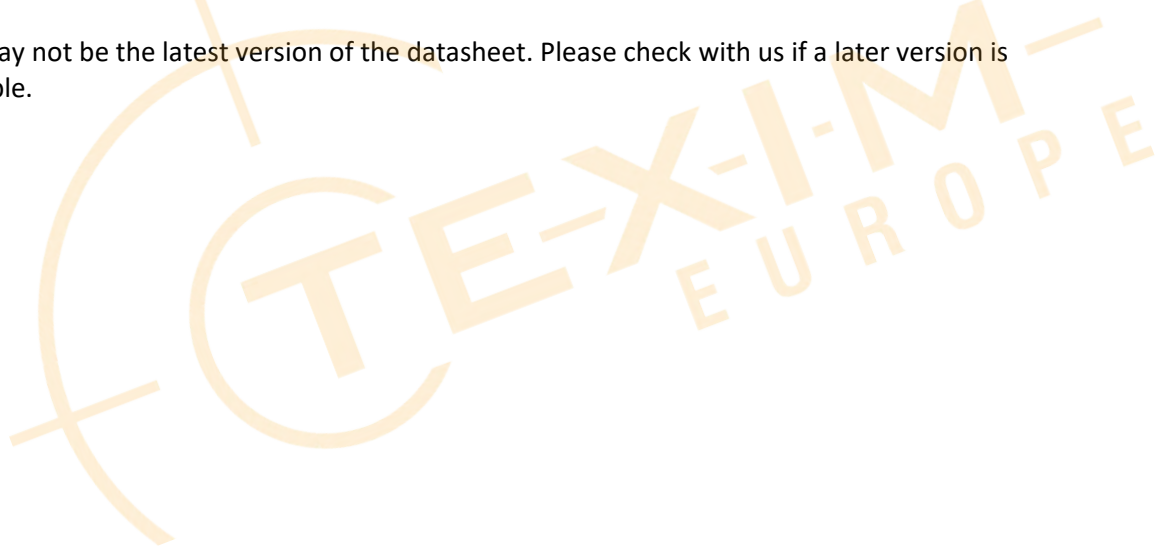
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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