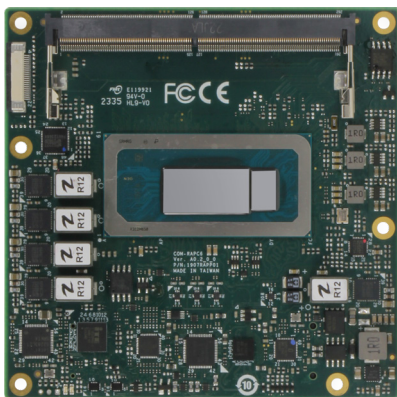


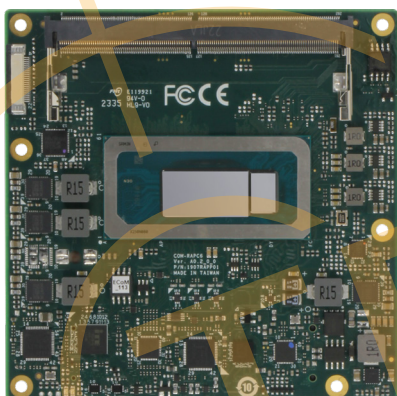
COM-RAPC6

COM Express Type 6 Compact Size with 13th Generation Intel® Core™ i7/i5/i3 Processor SoC

COM-RAPC6-H series CPU



COM-RAPC6-P/U series CPU



Specifications

System	
Form Factor	COM Express, Type 6
CPU	13th Intel® Core™ Processor: Intel® Core™ i7-13800HRE Processor (14C/20T, 2.5GHz, 45W, In-Band ECC) Intel® Core™ i7-13800HE Processor (14C/20T, 2.5GHz, 45W) Intel® Core™ i5-13600HE Processor (12C/16T, 2.7GHz, 45W) Intel® Core™ i3-13300HE Processor (8C/12T, 2.1GHz, 45W) Intel® Core™ i7-1370PE Processor (14C/20T, 1.9GHz, 28W) Intel® Core™ i5-1340PE Processor (14C/16T, 1.8GHz, 28W) Intel® Core™ i3-1320PE Processor (8C/12T, 1.7GHz, 28W) Intel® Core™ i3-1315UE Processor (6C/8T, 1.2GHz, 15W) Intel® Core™ U300 Processor (5C/6T, 1.1GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory	DDR5 Dual channel, SODIMM Socket x 2, non-ECC, up to 64GB (U Processor up to 4800MT/s, H/P Processor up to 5200 MT/s)
Onboard Storage	—
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.75" x 3.75" (95mm x 95mm)

Features

- 13th Generation Intel® Core™ i7/i5/i3 Processor SoC, max TDP 45W
- DDR5 SODIMM x 2, up to 64GB (non-ECC)
- Intel i226 2.5GbE x 1
- SATA 6.0Gbps x 2
- USB3.2 Gen2 x 4, USB2.0 x 8
- Up to 6 PCIe devices
- 12V DC input
- COM Express Type 6, Compact size, 95 x 95mm



Security	TPM 2.0
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Core™ i7-13800HE, DDR5 32GB x 2, 8.30A@ +12V
Display	
Graphics Controller	Intel® Iris® Xe Graphics Intel® UHD Graphics
Video Output	4 Simultaneous Displays: DDI x 3, up to 3840 x 2160 18/24-bit Single/Dual-Channel LVDS/eDP x 1, up to 1920 x 1080 / 3840 x 2160 @60Hz VGA x 1, up to 1920 x 1080
I/O	
Ethernet	Intel® Ethernet Controller I226, 2.5GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen 2 x 4
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA 6.0Gbps x 2
Expansion	PCIe[x1] x 4 (Configurable by BIOS)+ PCIe[x4] x 1+PCIe[x8] x 1 (PCIe[x8] for H series CPU only)
GPIO	8-bit
SMBus/I2C	I2C x 1, SMBus x 1
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) WITAS 2: -40°F ~ 185°F (-40°C ~ 85°C) on selected CPU SKU
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 / 11 (64-bit) Linux Ubuntu 24.04/Kernel 6.8
Weight	0.25 lb. (0.12Kg)

Packing List

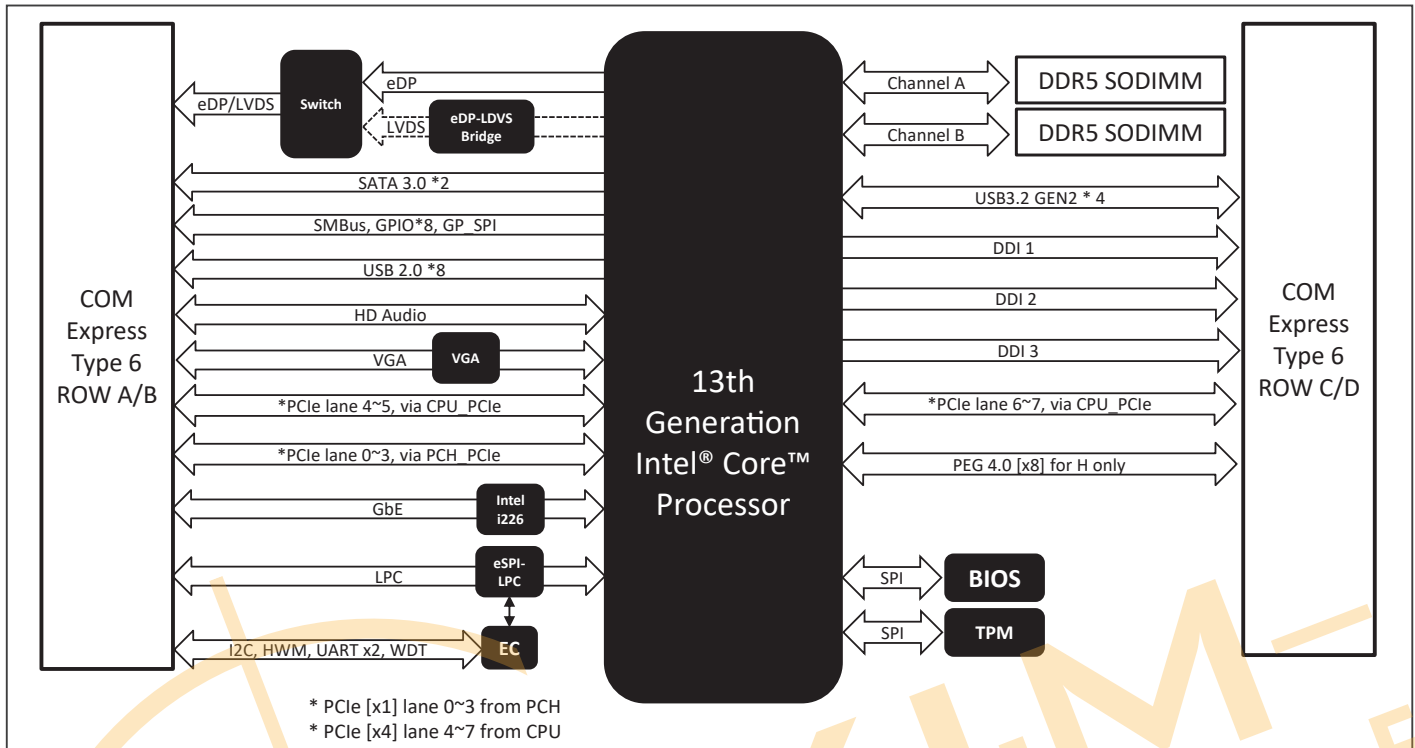
- COM-RAPC6

Optional Accessories

Part Number	Description
COM-RAPC6-FAN01	Cooler.95 x 95 x 45.4mm.4pin
COM-RAPC6-HSP01	Heat Spreader.95 x 95 x 11mm.black
ECB-920A-A11-0001	COMe Type 6/10.Carrier Board.ATX.2.5GbE.8USB.2COM.4SATA.PCIe.AT/ATX. Rev.A1.1

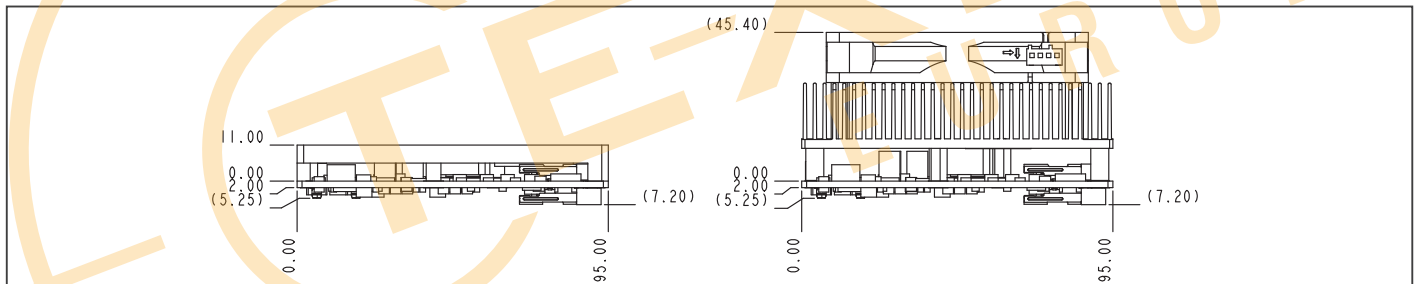


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	LVDS	Storage	LAN	USB	UART	Expansion	Power	Temp	Others
COM-RAPC6-A10-0001	Type 6	Intel® Core™ i7-13800HE	DDR5 SODIMM x2	—	VGA x1, DDI x3	18/24bits 2CH LVDS	SATA 6.0Gbps x2	i226-ITx1	USB 2.0 x8, USB3.2 Gen 2 x4	2-Wire UART x2 (Tx/Rx)	PCIe x4 lanes ([x1] x4 or [x2] x2 or [x4] x1) + PCIe [x4] x1 + PCIe [x8] x1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
COM-RAPC6-A10-0003	Type 6	Intel® Core™ i3-1320PE	DDR5 SODIMM x2	—	VGA x1, DDI x3	18/24bits 2CH LVDS	SATA 6.0Gbps x2	i226-ITx1	USB 2.0 x8, USB3.2 Gen 2 x4	2-Wire UART x2 (Tx/Rx)	PCIe x4 lanes ([x1] x4 or [x2] x2 or [x4] x1), PCIe [x4] x1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
COM-RAPC6-A10-0005	Type 6	Intel® Processor U300E	DDR5 SODIMM x2	—	VGA x1, DDI x3	18/24bits 2CH LVDS	SATA 6.0Gbps x2	i226-ITx1	USB 2.0 x8, USB3.2 Gen 2 x4	2-Wire UART x2 (Tx/Rx)	PCIe x4 lanes ([x1] x4 or [x2] x2 or [x4] x1), PCIe [x4] x1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
COM-RAPC6W2-A10-0001	Type 6	Intel® Core™ i7-13800HRE	DDR5 SODIMM x2	—	VGA x1, DDI x3	18/24bits 2CH LVDS	SATA 6.0Gbps x2	i226-ITx1	USB 2.0 x8, USB3.2 Gen 2 x4	2-Wire UART x2 (Tx/Rx)	PCIe x4 lanes ([x1] x4 or [x2] x2 or [x4] x1) + PCIe [x4] x1 + PCIe [x8] x1	12V	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus

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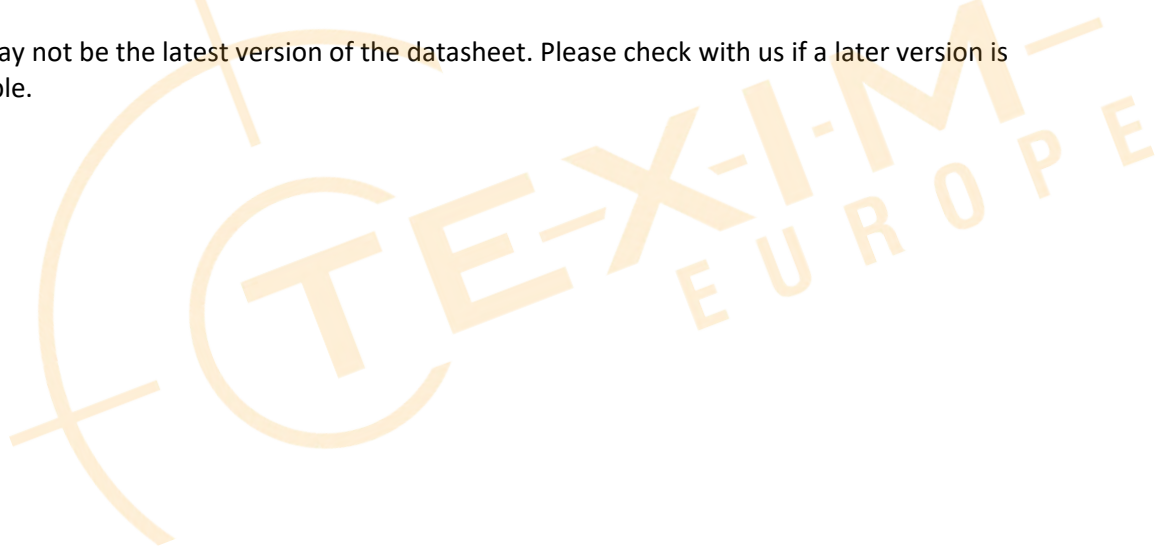
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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