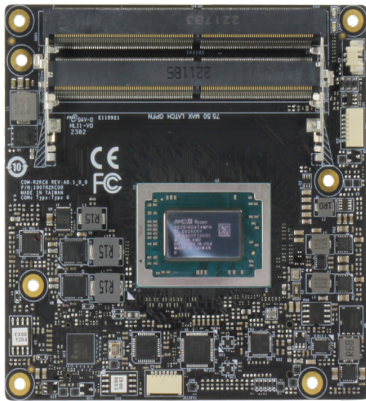


COM-R2KC6

COM Express Type 6 Compact Size with AMD Ryzen™ Embedded R2000 Series Processors

COM Express CPU Modules



Features

- DDR4 3200MHz SODIMM x 2, up to 32GB
- USB 2.0 x 8, USB3.2 10Gbps x2, USB3.2 5Gbps x1
- PCIe [x4] x 1, PCIe [x1] x 4, PEG [x4] x 1
- Intel® I226-LM/IT 2.5GbE x 1
- COM Express Type 6, 3.74" x 3.74" (95mm x 95mm)



Specifications

System	
Form Factor	COM Express Compact Size, Type 6
CPU	AMD Ryzen™ Embedded R2000 Series Processors: AMD Ryzen™ Embedded R2544 (4C/8T, 3.35 GHz, 45W) AMD Ryzen™ Embedded R2514 (4C/8T, 2.10 GHz, 15W) AMD Ryzen™ Embedded R2314 (4C/4T, 2.10 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory	DDR4 3200MHz SODIMM x 2, up to 32GB
Onboard Storage	—
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.74" x 3.74" (95mm x 95mm)
Security	TPM 2.0
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	AMD Ryzen™ R2544, 4.8A @+12V
Display	
Graphics Controller	AMD Radeon™ Vega 8 Graphics / AMD Radeon™ Vega 6 Graphics
Video Output	4 Simultaneous Displays: eDP x 1, up to 3840 x 2160 DDI x 3, up to 3840 x 2160
I/O	
Ethernet	Intel® I226-LM/IT 2.5GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB3.2 10Gbps x2, USB3.2 5Gbps x1
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA III x 2
Expansion	PEG [x4] PCIe Gen3[x1] x4 (0~3) PCIe Gen3[x4] x1 (4~7) LPC
GPIO	8-bit
SMBus/I2C	I2C x 1, 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 22.04.2/Kernel 5.19.0-32
Weight	0.44 lb. (0.20Kg)

Packing List

- COM-R2KC6

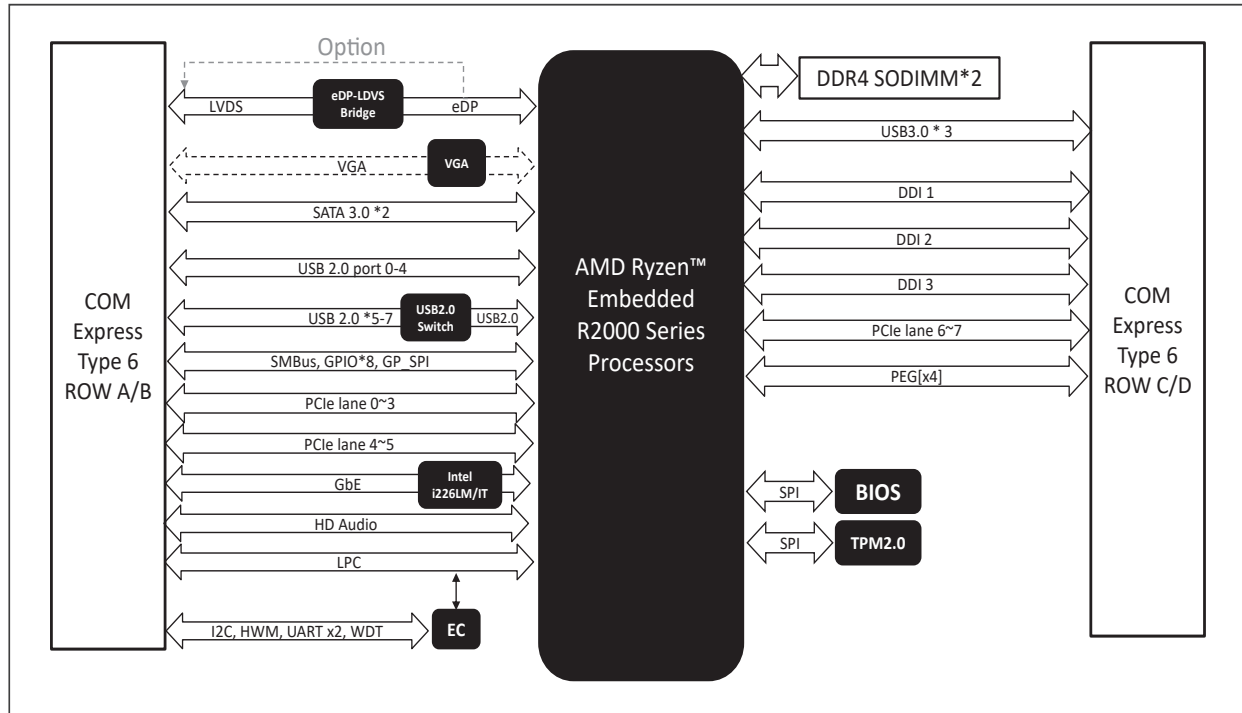
Optional Accessories

Part Number	Description
ECB-920A-A11-0001	COMe Type 6/10 Carrier Board.ATX.2.5GbE.8USB.2COM.4SATA.PCIE.AT/ATX. Rev. A1.1
COM-R2KC6-FAN01	Cooler.95mm x 95mm x 46mm.4pin

COM-R2KC6

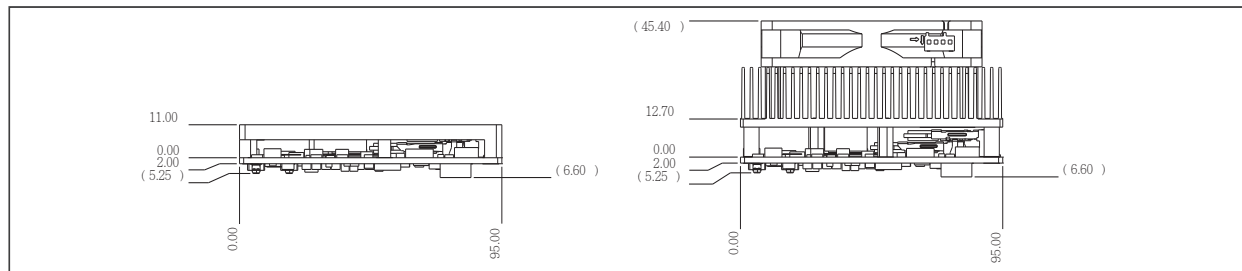
04

Block Diagram Unit: mm



COM Express CPU Modules

Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
COM-R2KC6-A10-0001	Type 6	AMD Ryzen™ R2544	DDR4 SODIMM x 2	Yes	eDP x 1, DDI x 3	SATA III x 2	Intel® I226-LM x 1	USB 2.0 x 8 USB 3.2 Gen 2 x 2 USB 3.2 Gen1 x 1	2-Wire UART x 2 (Tx/Rx)	PCIe[x4] x 1 PCIe[x1] x 4 PEG[x4] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-R2KC6-A10-0002	Type 6	AMD Ryzen™ R2514	DDR4 SODIMM x 2	Yes	eDP x 1, DDI x 3	SATA III x 2	Intel® I226-IT x 1	USB 2.0 x 8 USB 3.2 Gen 2 x 2 USB 3.2 Gen1 x 1	2-Wire UART x 2 (Tx/Rx)	PCIe[x4] x 1 PCIe[x1] x 4 PEG[x4] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-R2KC6-A10-0003	Type 6	AMD Ryzen™ R2314	DDR4 SODIMM x 2	Yes	eDP x 1, DDI x 3	SATA III x 2	Intel® I226-LM x 1	USB 2.0 x 8 USB 3.2 Gen 2 x 2 USB 3.2 Gen1 x 1	2-Wire UART x 2 (Tx/Rx)	PCIe[x4] x 1 PCIe[x1] x 4 PEG[x4] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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