HIGH SPEED GRAPHICS Conga-TR4



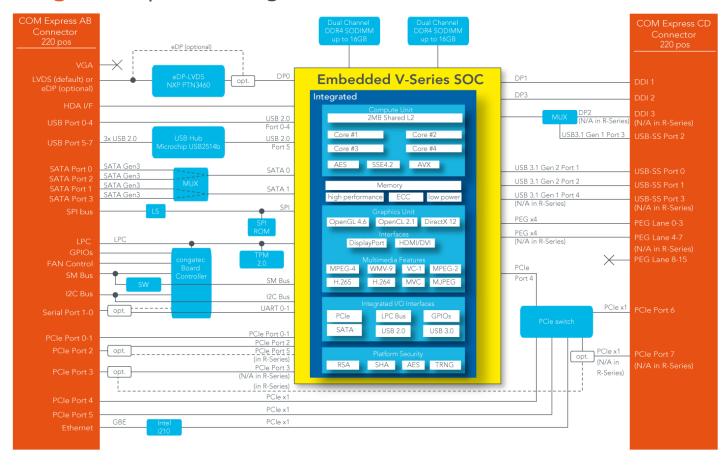
- AMD's Next Gen V1000 processor Series
- "Zen" core architecture with up to 4 cores
- Improved graphic performance with "Vega" GPU
- Up to 32GByte dual channel DDR4 3200MT/s memory
- TDP scalable down to 12W
- up to 4 x 4K DP / eDP



Formfactor	COM Express® Basic, (95 x 125 mm) Type 6 connector pinout						
CPU	Commercial V AMD V1807B AMD V1756B AMD V1605B AMD V1202B AMD R1606G AMD R1505G	4 Cores 8 Thread 4 Cores 8 Thread 4 Cores 8 Thread 2 Cores 4 Thread 2 Cores 4 Thread 2 Cores 4 Thread	ds 3.25 3 ds 2.0 3. ds 2.3 3.3 ds 2.6 3.	8.8 GHz (boost) 8.6 GHz (boost) 6 GHz (boost) 2 GHz (boost) 5 GHz (boost) 3 GHz (boost)	2 MB cache 2 MB cache 2 MB cache 1 MB cache 1 MB cache 1 MB cache	11 GPU CU 8 GPU CU 8 GPU CU 3 GPU CU 3 GPU CU 3 GPU CU	35-54W TDP 35-54W TDP 12-25W TDP 12-25W TDP 12-25W TDP 12-25W TDP
	AMD V1404I	4 Cores 8 Thread		O 2.8*/3.6 GHz (boost) mance in the -40 to 0°C temp ran	2 MB cache ge	8 GPU CU	12-25W TDP
DRAM	Dual channel DDR4 up to 3200 MT/s 2x SO-DIMM up to 2x 16 GByte (optionally with ECC support)						
Chipset	Integrated in SoC						
Ethernet	1x Gigabit Ethernet						
I/O Interfaces	4x PCI Express™ 3.0 lanes 4x PCI Express™ 2.0 lanes 1x PEG 3.0 x8 2x USB 3.1 Gen2 2x USB 3.1 Gen1 8x USB 2.0 2x SATA® 6 Gb/s I²C bus (fast mode, 400 kHz, multi-master) SD LPC Bus SPI SM-Bus 2x UART						
Sound	High Definition Audio Interface						
Graphics	Integrated AMD Radeon™ Graphics supports DirectX 12 OpenGL 4.6 and OpenCL™ 2.1 up to 4 simultaneous Displays Unified Video Decoder 6 (H.265, H.264, MVC, MPEG4, MPEG2, VC-1, WMV and MJPEG) Video Compression Engine 3.1 (dual, H.264, SVC)						
congatec Board Controller	Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics BIOS Setup Data Backup I ² C bus (fast mode, 400 kHz, multi-master) Power Loss Control						
Embedded BIOS Features	AMI AptioV® UEFI 2.x firmware 8 MByte serial SPI firmware flash						
Security	Trusted Platform Module (TPM 2.0) AMD Secure Processor™.						
Power Management	ACPI 5.0 with battery support						
Operating Systems	Microsoft® Windows 10 Microsoft® Windows 10 IoT Enterprise Linux opt. Microsoft® Windows 7						
Power Consumption	See user's guide for full details						
Temperature	Industrial: Commercial:	Operating: -40 to +85°C Operating: 0 to +60°C	Storage: -40 to +85°C Storage: -40 to +85°C				
Extended Temperature	Screening serv	ice on request:	-25 to +80°C (burn-in & cold-soak) -40 to +85°C (burn-in & cold-soak)				
Humidity	Operating: 10 -	90% r. H. non cond.	n cond. Storage: 5 - 95% r. H. non cond.				
Size	95 x 125 mm (3.74" x 4.92")						



conga-TR4 | Block diagram





conga-TR4 | Order Information – COM Express® Module

Article	PN	Description			
conga-TR4/V1807B	041600	COM Express Type 6 Basic module based on AMD embedded V-Series V1807B 4-core processor with 3.35 GHz up to 3.8 GHz turbo boost, 2MB L2 Cache and dual channel DDR4 3200MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 11 CU.			
conga-TR4/V1756B	041601	COM Express Type 6 Basic module based on AMD embedded V-Series V1756B 4-core processor with 3.25 GHz up t 3.6 GHz turbo boost, 2MB L2 Cache and dual channel DDR4 3200MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 8 CU.			
conga-TR4/V1605B	041602	COM Express Type 6 Basic module based on AMD embedded V-Series V1605B 4-core processor with 2.0 GHz up to 3.6 GHz turbo boost, 2MB L2 Cache and dual channel DDR4 2400MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 8 CU.			
conga-TR4/V1202B	041603	O41603 COM Express Type 6 Basic module based on AMD embedded V-Series V1202B 2-core processor with 2.3 GHz up to 3.2 GHz turbo boost, 1MB L2 Cache and dual channel DDR4 2400MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 3 CU.			
conga-TR4/i-V1404I	041610	COM Express Type 6 Basic module based on AMD embedded V-Series V1404B 4-core processor with 1.6* 2.0 GHz up to 2.8* 3.6 GHz turbo boost, 2MB L2 Cache and dual channel DDR4 2400MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 8 CU.			
		* Performance in the -40 to 0° C temperature range			
conga-TR4/R1606G	041620	COM Express Type 6 Basic module based on AMD embedded R-Series R1606G 2-core processor with 2.6 GHz up to 3.5 GHz turbo boost, 1MB L2 Cache and dual channel DDR4 2400MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 3 CU.			
conga-TR4/R1505G	041621	COM Express Type 6 Basic module based on AMD embedded R-Series R1505G 2-core processor with 2.4 GHz up to 3.3 GHz turbo boost, 1MB L2 Cache and dual channel DDR4 2400MT/s memory interface (formerly Great Horned Owl). Features AMD Radeon™ Vega integrated graphics core with 3 CU.			

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