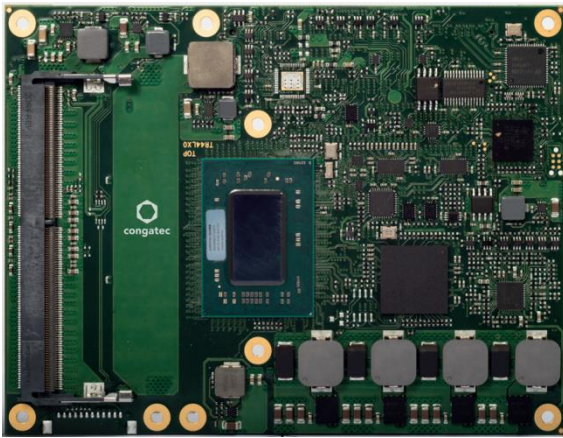


HIGH SPEED GRAPHICS

conga-TR4

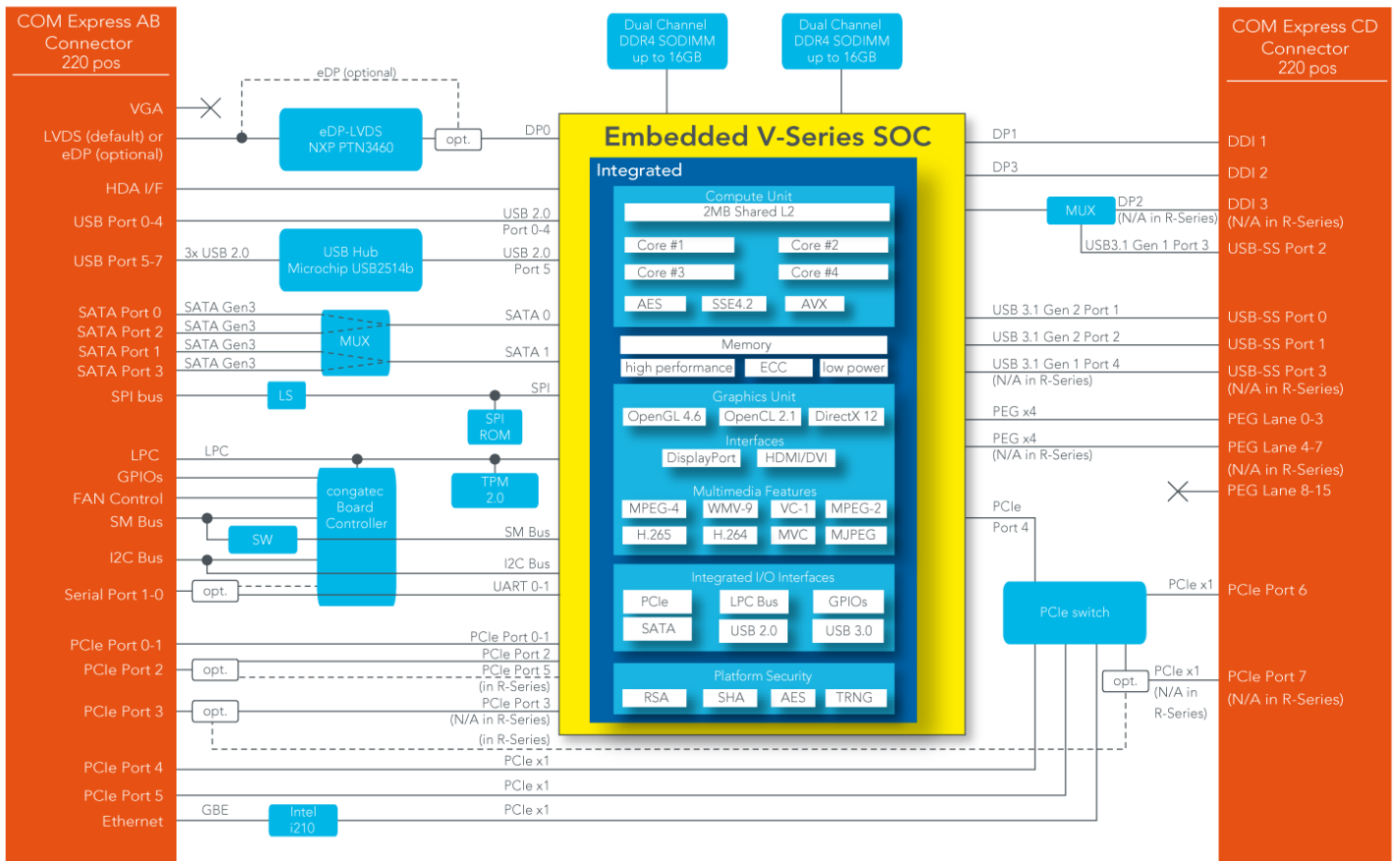


- AMD's Next Gen V1000 processor Series
- "Zen" core architecture with up to 4 cores
- Improved graphic performance with "Vega" GPU
- Up to 32GByte dual channel DDR4 3200MT/s memory
- TDP scalable down to 12W
- up to 4 x 4K DP / eDP



Formfactor	COM Express® Basic, (95 x 125 mm) Type 6 connector pinout					
CPU	Commercial Versions					
	AMD V1807B	4 Cores 8 Threads	3.35 3.8 GHz (boost)	2 MB cache	11 GPU CU	35-54W TDP
	AMD V1756B	4 Cores 8 Threads	3.25 3.6 GHz (boost)	2 MB cache	8 GPU CU	35-54W TDP
	AMD V1605B	4 Cores 8 Threads	2.0 3.6 GHz (boost)	2 MB cache	8 GPU CU	12-25W TDP
	AMD V1202B	2 Cores 4 Threads	2.3 3.2 GHz (boost)	1 MB cache	3 GPU CU	12-25W TDP
	AMD R1606G	2 Cores 4 Threads	2.6 3.5 GHz (boost)	1 MB cache	3 GPU CU	12-25W TDP
	AMD R1505G	2 Cores 4 Threads	2.4 3.3 GHz (boost)	1 MB cache	3 GPU CU	12-25W TDP
	Industrial Versions					
	AMD V1404I	4 Cores 8 Threads	1.6*/2.0 2.8*/3.6 GHz (boost)	2 MB cache	8 GPU CU	12-25W TDP
			* Performance in the -40 to 0°C temp range			
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 I²C 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:	Operating: -40 to +85°C	Storage: -40 to +85°C			
	Commercial:	Operating: 0 to +60°C	Storage: -40 to +85°C			
Extended Temperature	Screening service 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.		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 to 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	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.

conga-TR4 | Order Information – Accessory

Article	PN	Description
conga-TR4/HSP-HP-B	041651	Standard heatspreader for high performance COM Express module conga-TR4 with integrated heat pipes. All standoffs are with 2.7mm bore hole.
conga-TR4/HSP-HP-T	041652	Standard heatspreader for high performance COM Express module conga-TR4 with integrated heat pipes. All standoffs are M2.5mm thread.
conga-TR4/CSP-HP-B	041653	Standard passive cooling solution for high performance COM Express module conga-TR4 with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All standoffs are with 2.7mm bore hole.
conga-TR4/CSP-HP-T	041654	Standard passive cooling solution for high performance COM Express module conga-TR4 with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All standoffs are M2.5mm thread.
conga-TR4/CSA-HP-B	041655	Standard active cooling solution for high performance COM Express module conga-TR4 with integrated heat pipes, 15mm fins, 20mm overall heat sink height and integrated 12V fan. All standoffs are with 2.7mm bore hole.
conga-TR4/CSA-HP-T	041656	Standard active cooling solution for high performance COM Express module conga-TR4 with integrated heat pipes, 15mm fins, 20mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm thread.
DDR4-SODIMM-3200 ECC (4GB)	068736	DDR4 ECC SODIMM memory module with 3200 MT/s and 4GB RAM
DDR4-SODIMM-3200 ECC (8GB)	068737	DDR4 ECC SODIMM memory module with 3200 MT/s and 8GB RAM
DDR4-SODIMM-3200 ECC (16GB)	068738	DDR4 ECC SODIMM memory module with 3200 MT/s and 16GB RAM
DDR4-SODIMM-3200 (4GB)	068793	DDR4 SODIMM memory module with 3200 MT/s and 4GB RAM
DDR4-SODIMM-3200 (8GB)	068794	DDR4 SODIMM memory module with 3200 MT/s and 8GB RAM
DDR4-SODIMM-3200 (16GB)	068798	DDR4 SODIMM memory module with 3200 MT/s and 16GB RAM
DDR4-SODIMM-2400 ECC (4GB)	068795	DDR4 ECC SODIMM memory module with 2400 MT/s and 4GB RAM
DDR4-SODIMM-2400 ECC (8GB)	068796	DDR4 ECC SODIMM memory module with 2400 MT/s and 8GB RAM
DDR4-SODIMM-2400 ECC (16GB)	068797	DDR4 ECC SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2400 (4GB)	068790	DDR4 SODIMM memory module with 2400 MT/s and 4GB RAM
DDR4-SODIMM-2400 (8GB)	068791	DDR4 SODIMM memory module with 2400 MT/s and 8GB RAM
DDR4-SODIMM-2400 (16GB)	068792	DDR4 SODIMM memory module with 2400 MT/s and 16GB RAM
conga-TEVAL	065810	Evaluation carrier board for Type 6 COM Express modules
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Computer-On-Modules - COM category](#):

Click to view products by [Congatec manufacturer](#):

Other Similar products are found below :

[FP2-BP12](#) [CEM881PG-i7-5650U](#) [t2Express-HL-i5-4402E](#) [34099-0000-99-2](#) [38017-0000-00-0](#) [36024-0000-99-1](#) [34099-0000-99-0](#) [36026-0000-99-1](#) [36026-0000-99-0](#) [38017-0000-00-5](#) [36016-4000-19-4](#) [VSTK-6ULL-NFC](#) [Express-SL-i7-6820EQ](#) [W612M3A600SC](#) [24828-10724571-309](#) [30846-682](#) [ET970K-X3G](#) [UPC-PLUSX5Q-A20-0464](#) [UPC-PLUSX7-A20-08128](#) [UPC-PLUSX5D-A20-0232](#) [UPC-PLUSX7-A20-0864](#) [UPX-WHLCR-A20-04064](#) [cExpress-BL-i5-5350U](#) [cExpress-KL-i3-7100U](#) [Express-BD7-D1539](#) [Express-CF-i5-8400H](#) [Express-HLE-i3-4100E](#) [Express-IBR-i7-R-3612QE](#) [LEC-BT4-4G-8G-ER](#) [nanoX-BT-E3825-2G/8G](#) [nanoX-BT-E3845-4G](#) [Q7-BT1-2G-8G-ER](#) [ROM-3310CS-MCA1E](#) [ROM-3310WS-MCA1E](#) [Evo M51](#) [EmNANO-a56M0-210HA](#) [EmQ-i2301-E3825](#) [EmQ-i2301-E3845](#) [EmQ-i2506](#) [G552BE](#) [CEM130-V1202B](#) [CEM700-D1508](#) [ET976-1807LV-4G](#) [ET976-1202-4G](#) [ET976-1605-4G](#) [ET976-1605LV-4G](#) [ET976-1605LV-8G](#) [ET976-1807LV-8G](#) [ET976-1202LV-E4G](#)