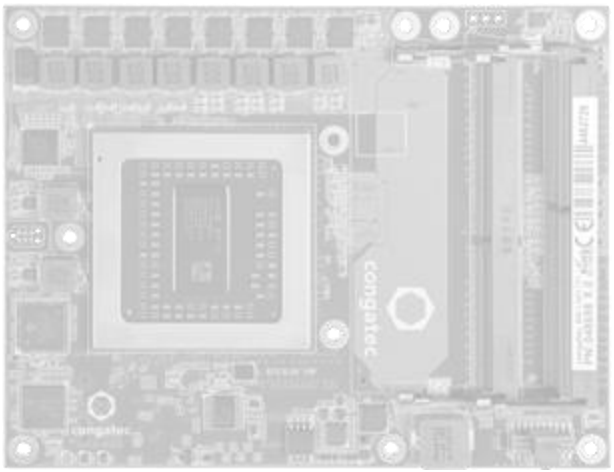
HIGH SPEED GRAPHICS

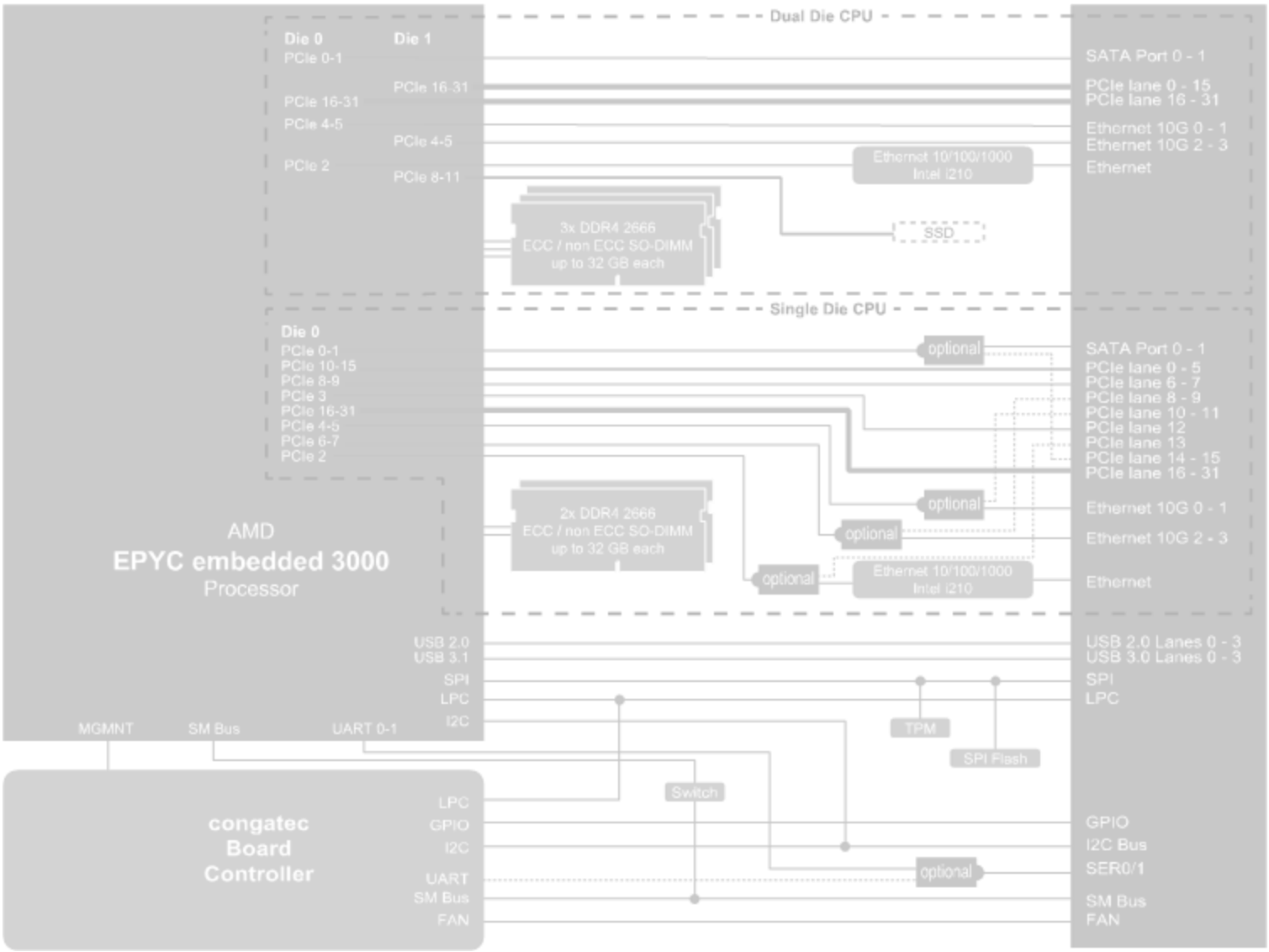
conga-TR4



- AMD V1000/R1000 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 four independent displays (4K; DP/eDP)

COM Express®

Formfactor	COM Express® Rev. 3.0, Basic Formfactor (95 x 125 mm), Type 6 Connector Pinout
CPU	Commercial Versions AMD V1807B — 4 Cores / 8 Threads — 11 GPU CU — 3.35 / 3.8 GHz — 2 MB L2-Cache — 35-54W TDP AMD V1756B — 4 Cores / 8 Threads — 8 GPU CU — 3.25 / 3.6 GHz — 2 MB L2-Cache — 35-54W TDP AMD V1605B — 4 Cores / 8 Threads — 8 GPU CU — 2.0 / 3.6 GHz — 2 MB L2-Cache — 12-25W TDP AMD V1202B — 2 Cores / 4 Threads — 3 GPU CU — 2.3 / 3.2 GHz — 1 MB L2-Cache — 12-25W TDP AMD R1606G — 2 Cores / 4 Threads — 3 GPU CU — 2.6 / 3.5 GHz — 1 MB L2-Cache — 12-25W TDP AMD R1505G — 2 Cores / 4 Threads — 3 GPU CU — 2.4 / 3.3 GHz — 1 MB L2-Cache — 12-25W TDP Industrial Version AMD V1404I — 4 Cores / 8 Threads — 8 GPU CU — 2.0 / 3.6 GHz — 2 MB L2-Cache — 12-25W TDP
DRAM	Up to 2 SO-DIMM sockets for DDR4 memory modules up to 16 GByte each (32 GByte total) with 3200 MT/s ECC and non-ECC supported
Chipset	Integrated in SoC
Ethernet	1x Gigabit Ethernet
I/O Interfaces	4x PCIe Gen3 max. | 4x PCIe Gen2 4x USB 3.1 max | 4x USB 2.0 2x SATA III (6Gb/s) LPC | SPI | 2x UART | SMBus
congatec Board Controller	Multi Stage Watchdog | non-volatile User Data Storage | Manufacturing and Board Information | Board Statistics I²C bus (fast mode, 400 kHz, multi-master) | Power Loss Control | Hardware Health Monitoring | POST Code redirection
Embedded BIOS Features	OEM Customization | Flash Update | based on AMI Aptio UEFI
Security	Trusted Platform Module (TPM 2.0) | AMD Secure Processor
Power Management	ACPI 5.0 with battery support Operating Systems
Operating Systems	Microsoft® Windows 10 | Microsoft® Windows 10 IoT Enterprise | Linux
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”)



Wird von Marketing eingefügt.

conga-TR4 | Order Information

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 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. Industrial 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.
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.
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.
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.
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.
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.
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.

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Rev. May 07, 2019 MR

conga-TR4 | Order Information

Article	PN	Description
DDR4-SODIMM-2666 (4GB)	067780	DDR4 SODIMM memory module with 2666 MT/s and 4GB RAM
DDR4-SODIMM-2666 (8GB)	067781	DDR4 SODIMM memory module with 2666 MT/s and 8GB RAM
DDR4-SODIMM-2666 (16GB)	067782	DDR4 SODIMM memory module with 2666 MT/s and 16GB RAM
DDR4-SODIMM-2666 ECC (4GB)	067783	DDR4 ECC SODIMM memory module with 2666 MT/s and 4GB RAM
DDR4-SODIMM-2666 ECC (8GB)	067784	DDR4 ECC SODIMM memory module with 2666 MT/s and 8GB RAM
DDR4-SODIMM-2666 ECC (16GB)	067785	DDR4 ECC SODIMM memory module with 2666 MT/s and 16GB RAM
DDR4-SODIMM-2666 (4GB) / i-temp	068819	Industrial DDR4 SODIMM memory module with 2666 MT/s and 4GB RAM
DDR4-SODIMM-2666 (8GB) / i-temp	068820	Industrial DDR4 SODIMM memory module with 2666 MT/s and 8GB RAM
DDR4-SODIMM-2666 (16GB) / i-temp	068821	Industrial DDR4 SODIMM memory module with 2666 MT/s and 16GB RAM
DDR4-SODIMM-2666 ECC (4GB) / i-temp	068822	Industrial DDR4 ECC SODIMM memory module with 2666 MT/s and 4GB RAM
DDR4-SODIMM-2666 ECC (8GB) / i-temp	068823	Industrial DDR4 ECC SODIMM memory module with 2666 MT/s and 8GB RAM
DDR4-SODIMM-2666 ECC (16GB) / i-temp	068824	Industrial DDR4 ECC SODIMM memory module with 2666 MT/s and 16GB RAM
conga-X7EVAL	065420	Evaluation Carrier Board for COM Express Type 7 modules with up to four 10GbE SFP+ fiber/copper ports implemented via Intel Cortina 10GbE Phy's. The carrier features an Aspeed AST2500 Board Management Controller (BMC).

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