

HIGH SPEED GRAPHICS

conga-TR3

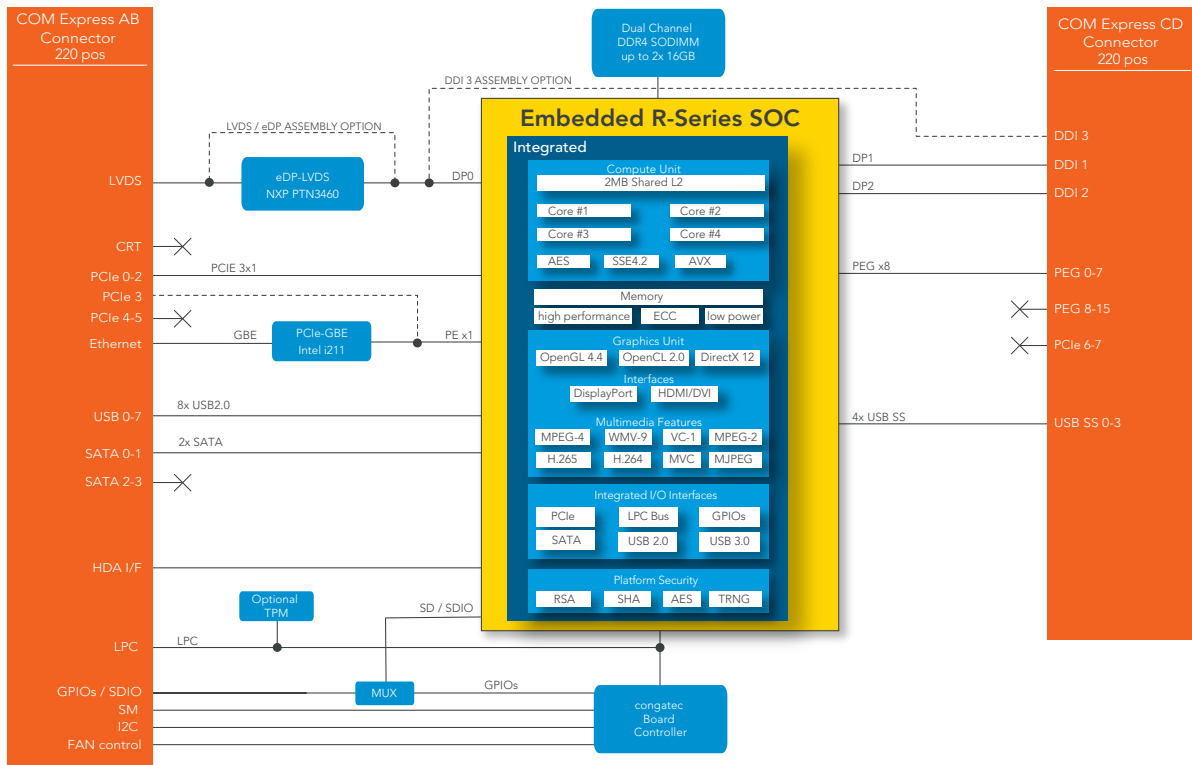


- AMD Embedded R-Series SOC
- Up to 4 "Excavator" Cores
- High performance integrated 3rd Gen. GCN graphics with up to 512 stream processors
- Unified Video Decoder (UVD 6) supporting HEVC/H.265 4K@60Hz
- ECC protected DDR4 memory up to 32 GByte
- Full HSA 2.0 compliant (Heterogenous System Architecture)
- TDP scalable down to 12W



Formfactor	COM Express® Basic (95 x 125 mm) Type 6 Connector Layout
CPU	<p>AMD Embedded R-Series SOC</p> <p>AMD Embedded RX-421BD 4x 2.1 .. 3.4 GHz L2 cache 2MB shared Radeon™ R7 Graphics TDP 15 W, conf. to 12/25/35 W</p> <p>AMD Embedded RX-418GD 4x 1.8 .. 3.2 GHz L2 cache 2MB shared Radeon™ R6 Graphics TDP 15 W, conf. to 12/25/35 W</p> <p>AMD Embedded RX-216GD 2x 1.6 .. 3.0 GHz L2 cache 1MB shared Radeon™ R5 Graphics TDP 15 W, conf. to 12 W</p>
DRAM	2 Sockets, SO-DIMM DDR4 up to 32 GByte with ECC
Chipset	Integrated in SOC (single-chip)
Ethernet	Gigabit Ethernet
I/O Interfaces	3x PCI Express™ 2.0 lanes 1x PEG 3.0 x8 2x SATA® 6 Gb/s 4x USB 3.0/2.0 4x USB 2.0 I²C bus (fast mode, 400 kHz, multi-master) SD LPC Bus SPI SM-Bus 2x UART
Sound	High Definition Audio Interface TrueAudio 2.1
Graphics	Integrated AMD Radeon™ Graphics supports DirectX 12 OpenGL 4.4 and OpenCL™ 2.0 up to 3 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)
LVDS	18/24-bit Single/Dual Channel LVDS Interface Resolutions up to 1920X1200@60Hz VESA standard or JEIDA data mapping Automatic Panel Detection via EDID/EPI
Digital Display Interface	2x DisplayPort 1.2/ HDMI 2.0 supporting 4K @60Hz
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 Backlight
Embedded BIOS Features	AMI AptioV® UEFI 2.x firmware 8 MByte serial SPI firmware flash
Security	The conga-TR3 can be optionally equipped with a discrete "Trusted Platform Module" (TPM). It is capable of calculating efficient hash and RSA algorithms with key lengths up to 2,048 bits and includes a real random number generator. Security sensitive applications such as gaming and e-commerce will benefit also with improved authentication, integrity and confidence levels.
Power Management	ACPI 5.0 with battery support
Operating Systems	Microsoft® Windows 10 Microsoft® Windows 8.1 Microsoft® Windows® 8 Embedded Standard Linux optional Microsoft® Windows 7
Temperature	Commercial : Operating: 0 to +60°C Storage: -20 to +80°C
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-TR3 | Block diagram



conga-TR3 | Order Information

Article	PN	Description
conga-TR3/RX421BD	041300	COM Express Basic Type 6 module AMD Embedded RX-421BD SOC AMD Radeon™ R7 Graphics TDP 15/12-35W Quad-core CPU freq. 2.1/3.4 GHz 8 GPU-CU GPU freq. 800 MHz
conga-TR3/RX418GD	041301	COM Express Basic Type 6 module AMD Embedded RX-418GD SOC AMD Radeon™ R6 Graphics TDP 15/12-35W Quad-core CPU freq. 1.8/3.2 GHz 6 GPU-CU GPU freq. 800 MHz
conga-TR3/RX216GD	041302	COM Express Basic Type 6 module AMD Embedded RX-216GD SOC AMD Radeon™ R5 Graphics TDP 15/12-15W Dual-core CPU freq. 1.6/3.0 GHz 4 GPU-CU GPU freq. 800 MHz
conga-TR3/HSP-HP-B	041351	Standard heatspreader for high performance COM Express module conga-TR3 with integrated heat pipes. All standoffs are with 2.7mm bore hole.
conga-TR3/HSP-HP-T	041352	Standard heatspreader for high performance COM Express module conga-TR3 with integrated heat pipes. All standoffs are M2.5mm thread.
conga-TR3/CSP-HP-B	041355	Standard passive cooling solution for high performance COM Express module conga-TR3 with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All standoffs are with 2.7mm bore hole.
conga-TR3/CSP-HP-T	041356	Standard passive cooling solution for high performance COM Express module conga-TR3 with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All standoffs are M2.5mm thread.
conga-TR3/CSA-HP-B	041357	Standard active cooling solution for high performance COM Express module conga-TR3 with integrated heat pipes, 15mm fins, 20mm overall heat sink height and integrated 12V fan. All standoffs are with 2.7mm bore hole.
conga-TR3/CSA-HP-T	041358	Standard active cooling solution for high performance COM Express module conga-TR3 with integrated heat pipes, 15mm fins, 20mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm thread.
DDR4-SODIMM-2400 (4GB)	068790	4 GByte DDR4 SODIMM memory module 2400 MT/s
DDR4-SODIMM-2400 (8GB)	068791	8 GByte DDR4 SODIMM memory module 2400 MT/s
DDR4-SODIMM-2400 (16GB)	068792	16 GByte DDR4 SODIMM memory module 2400 MT/s
DDR4-SODIMM-2400 ECC (4GB)	068795	4 GByte ECC DDR4 SODIMM memory module 2400 MT/s (PC4-2400) 260 pin supply voltage 1,2V
DDR4-SODIMM-2400 ECC (8GB)	068796	8 GByte ECC DDR4 SODIMM memory module 2400 MT/s (PC4-2400) 260 pin supply voltage 1,2V
DDR4-SODIMM-2400 ECC (16GB)	068797	16 GByte ECC DDR4 SODIMM memory module 2400 MT/s (PC4-2400) 260 pin supply voltage 1,2V
Accessories		
conga-TEVAL	065800	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
COM-Express-Carrier-Socket-5	400007	Connector for COM-Express carrier boards height 5mm packing unit 4 pieces
COM-Express-Carrier-Socket-8	400004	Connector for COM-Express carrier boards height 8mm packing unit 4 pieces

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