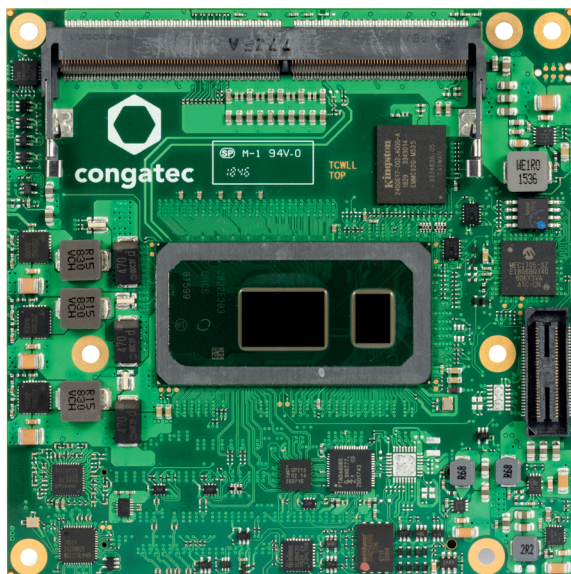


QUAD CORE COMPACT

conga-TC370

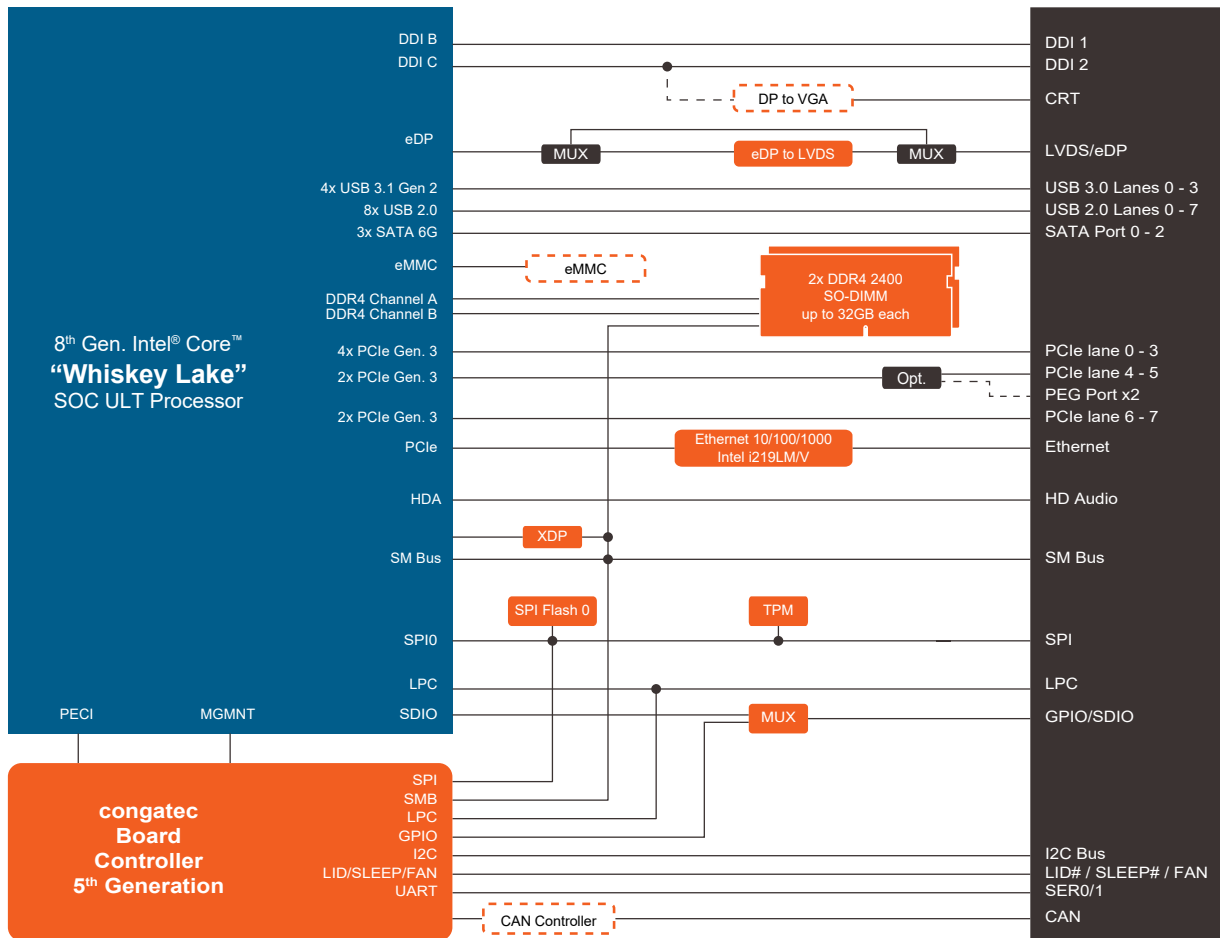


- 8th Generation Intel® Core™ SOC processor up to 4 cores
- Configuration of display mode by software (LVDS/eDP)
- Low power consumption (TDP 15W, cTDP 10W)
- Up to 64 GByte dual channel DDR4 2400 MT/s
- Optional eMMC 5.1 on board mass storage
- Trusted Platform Module (TPM 2.0)
- COM Express Compact Type 6 module 95x95 mm²



Formfactor	COM Express® Compact, (95 x 95 mm), Type 6 Connector Layout				
CPU	Intel® Core™ i7-8665UE	4.40 GHz (Burst) 1.7 GHz Clock	Quad Core, 8 Threads	L2 cache 8MB	15W TDP (configurable to 10/25W)
	Intel® Core™ i5-8365UE	4.10 GHz (Burst) 1.6 GHz Clock	Quad Core, 8 Threads	L2 cache 6MB	15W TDP (configurable to 10/25W)
	Intel® Core™ i3-8145UE	3.90 GHz (Burst) 2.2 GHz Clock	Dual Core, 4 Threads	L2 cache 4MB	15W TDP (configurable to 10/25W)
	Intel® Celeron® 4305UE	2.00 GHz (Burst) 2.0 GHz Clock	Dual Core, 2 Threads	L2 cache 2MB	15W TDP
DRAM	Dual channel DDR4 up to 2.400 MT/s 2x SO-DIMM max. 2x 32 Gbyte				
Chipset	Integrated Intel® 300 Series				
Ethernet	1x Gigabit Ethernet Intel i219LM				
Sound	Digital High Definition Audio Interface with support for multiple audio codecs				
Graphics	Intel® Gen9 HD Graphics Engine with OpenCL 2.1, OpenGL 4.5 and DirectX12 (for Windows 10) support up to three independent displays: HDMI 2.0a / DisplayPort 1.2 / eDP 1.4 High performance hardware MPEG-2 decoding WMV9 (VC-1) and H.265 (HEVC) support Blu-ray support @ 40 MBit/s HEVC and VP9 encoding				
Display Interface	2x DP / HDMI or DP++ ports 18/24bit single/dual channel LVDS or eDP optional VGA interface LVDS interface with optional eDP overlay. Configuration of display mode by software				
I/O Interfaces	8x PCI Express Gen 3.0 lanes 3x Serial ATA Gen 3 (can be configured as RAID) 4x USB 3.1 Gen 2 8x USB 2.0 LPC bus (no DMA) I²C bus (fast mode, 400 kHz, multi-master) 2x UART				
Storage	optional eMMC 5.1 on board mass storage				
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	AMI Aptio® 2.X (UEFI) BIOS SM-BIOS BIOS Update Logo Boot Quiet Boot HDD Password				
Security	Trusted Platform Module (TPM 2.0) Secure Root of Trust Secure Memory Encryption Secure Encrypted Virtualization				
Power Management	ACPI compliant with battery support Suspend to RAM (S3) support S5 enhanced support Intel AMT 12.0 support				
Operating Systems	Microsoft® Windows 10 (64bit only) Microsoft® Windows 10 IoT Enterprise (64bit only) Linux				
Power Consumption	See user's guide for full details				
Temperature	Operating: 0 .. +60°C Storage: -20 .. +70°C				
Humidity	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.				
Size	95 x 95 mm (3.74" x 3.74")				

conga-TC370 | Block diagram



conga-TC370 | Order Information

Article	PN	Description
conga-TC370/i7-8665UE	048800	COM Express Type 6 Compact module with Intel® Core™ i7-8665UE quad core processor with 1.7GHz, 8MB L2 cache, GT2 graphics and 2400MT/s dual channel DDR4 memory interface (15W).
conga-TC370/i5-8365UE	048801	COM Express Type 6 Compact module with Intel® Core™ i5-8365UE quad core processor with 1.6GHz, 6MB L2 cache, GT2 graphics and 2400MT/s dual channel DDR4 memory interface (15W).
conga-TC370/i3-8145UE	048802	COM Express Type 6 Compact module with Intel® Core™ i3-8145UE dual core processor with 2.2GHz, 4MB L2 cache, GT2 graphics and 2400MT/s dual channel DDR4 memory interface (15W).
conga-TC370/4305UE	048804	COM Express Type 6 Compact module with Intel® Celeron® Processor 4305UE, dual core with 2.0GHz, 2MB L2 cache, GT1 graphics and 2400MT/s dual channel DDR4 memory interface (15W).
conga-TC370/CSA-HP-B	048850	Standard active cooling solution for COM Express Compact modules conga-TC370 with integrated heat pipes, 25.5mm overall cooling height and integrated 12V fan. Through hole mounting with bore hole standoffs Ø2.7mm.
conga-TC370/CSA-HP-T	048851	Standard active cooling solution for COM Express Compact modules conga-TC370 with integrated heat pipes, 25.5mm overall cooling height and integrated 12V fan. Threaded mounting with threaded standoffs M2.5.
conga-TC370/CSP-HP-B	048852	Standard passive cooling solution for COM Express Compact modules conga-TC370 with integrated heat pipes and 24.3mm overall cooling height. Through hole mounting with bore hole standoffs Ø2.7mm.
conga-TC370/CSP-HP-T	048853	Standard passive cooling solution for COM Express Compact modules conga-TC370 with integrated heat pipes and 24.3mm overall cooling height. Threaded mounting with threaded standoffs M2.5.
conga-TC370/HSP-HP-B	048854	Standard heatspreader for COM Express Compact modules conga-TC370 with integrated heat pipes and 11mm overall cooling height. Through hole mounting with bore hole standoffs Ø2.7mm.
conga-TC370/HSP-HP-T	048855	Standard heatspreader for COM Express Compact modules conga-TC370 with integrated heat pipes and 11mm overall cooling height. Threaded mounting with threaded standoffs M2.5.
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
DDR4-SODIMM-2400 (32GB)	068809	DDR4 SODIMM memory module with 2400 MT/s and 32GB RAM
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 (32GB)	068806	DDR4 SODIMM memory module with 2666 MT/s and 32GB RAM
Accessories		
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