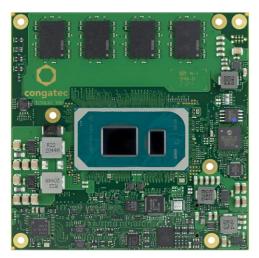
# 11<sup>TH</sup> GEN INTEL® CORE™ PROCESSORS Conga-TC570r





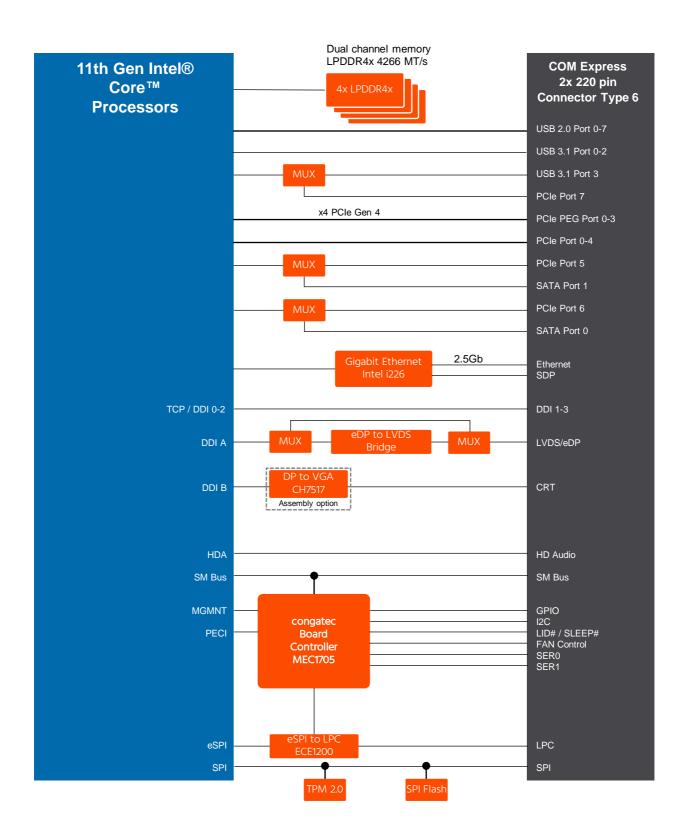
- Embedded / Industrial use condition
- Extended temperature options available
- PCI Express Gen 4
- Up to 32 GByte dual channel LPDDR4X soldered down memory with 4266 MT/s IBECC
- AI / DL Instruction Sets including VNNI

Form Factor	COM Express® Compact, (95 x 95 mm)   Type 6 connector pinout						
СРИ	Processor	Cores/ Threads	Base Frequency / max. Turbo	TDP	Graphics	Intel Use Condition	
	Core™ i7-1185G7E	4C / 8T	1.80 GHz / 4.40 GHz	12-28W	96 EU	Embedded Broad Market	
	Core™ i5-1145G7E	4C / 8T	1.50 GHz / 4.40 GHz	12-28W	80 EU	Embedded Broad Market	
	Core™ i3-1115G4E	2C / 4T	2.20 GHz / 3.90 GHz	12-28W	48 EU	Embedded Broad Market	
	Celeron 6305E	2C / 2T	1.80 GHz /	15W	48 EU	Embedded Broad Market	
	Core™ i7-1185GRE	4C / 8T	1.80 GHz / 4.40 GHz		96 EU	Industrial	
	Core™ i5-1145GRE	4C / 8T	1.50 GHz / 4.10 GHz	12-28W	80 EU	Industrial	
	Core™ i3-1115GRE	2C / 4T	2.20 GHz / 3.90 GHz	12-28W	48 EU	Industrial	
DRAM	Up to 32 GByte LPDDR4X 4266MT/s SDRAM   memory down   dual channel   IBECC						
Graphics	Integrated Xe Gen 12 graphics engine with up to 96 EU (Execution Units)   Supporting 4 independent display units (4x4k / 2x8K)   Enhanced media (AV1/12b) with up to 2 VDbox   Next Gen IPU6 with DPHY2.1   DP 1.4						
Display	3x DP/DP++   1x eDP						
Ethernet	2.5 GbE with TSN support via Intel® i226 Ethernet controller series						
I/O Interfaces	8x PCle Gen3   PEG support x4 (PCle Gen4) 4x USB 3.1 Gen 2   8x USB 2.0   2x SATA III (6Gb/s)   SPI   2x UART   8x GPIO						
Audio	HDA interface						
congatec Board controller	Multi-stage Watchdog   non-volatile User Data Storage   Manufacturing and Board Information   Board Statistics I <sup>2</sup> C (fast mode, 400 kHz, multi-master)   Power Loss Control   Hardware Health Monitoring   POST code redirection						
Embedded BIOS Feature	AMI Aptio® UEFI firmware   32 Mbyte serial SPI with congatec Embedded BIOS feature   OEM Logo   OEM CMOS Defaults   LCD Control   Display Auto Detection   Backlight Control   Flash Update						
Security	Trusted Platform Module (TPM 2.0)						
Power Management	ACPI 5.0 with battery support						
Operating Systems	Microsoft® Windows 10   Microsoft® Windows 10 IoT Enterprise   Microsoft® Windows IoT 10 Core   Linux   Android   Yocto						
Hypervisor	RTS Real-Time Hypervisor						
Temperature Range				Storage Tempe Storage Tempe			
Humidity	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.						
Size	95 x 95 mm <sup>2</sup>						





### conga-TC570r | Order Information





## conga-TC570r | Order Information

Article	PN	Description		
conga-TC570r/i7-1185GRE-32G	050330	COM Express Type 6 Compact module based on Intel® Core™ i7-1185GRE 4-core processor with 1.8GHz up to 4.4GHz turbo boost, 12MB cache, Intel® Iris® Xe Graphics with 96EU and 32 GByte du channel LPDDR4X 4266 MT/s memory down (Intel Tiger Lake). Industrial temperature range.		
conga-TC570r/i5-1145GRE-16G	050331	COM Express Type 6 Compact module based on Intel® Core™ i5-1145GRE 4-core processor with 1.5GHz up to 4.1GHz turbo boost, 8MB cache, Intel® Iris® Xe Graphics with 80EU and 16GByte dual channel LPDDR4X 4266 MT/s memory down (Intel Tiger Lake). Industrial temperature range.		
conga-TC570r/i3-1115GRE-8G	050332	COM Express Type 6 Compact module based on Intel® Core™ i3-1115G4E 2-core processor with 2.2GHz up to 3.9GHz turbo boost, 6MB cache, Intel® UHD Graphics with 48EU and 8 GByte dual channel LPDDR4X 4266 MT/s memory down (Intel Tiger Lake). Industrial temperature range.		
conga-TC570r/6305E-4G	050320	COM Express Type 6 Compact module based on Intel® Celeron® 6305E 2-core processor with 1.8GHz, 4MB cache, Intel® UHD Graphics with 48EU and 4 GByte dual channel LPDDR4X 4266 MT/s memory down (Intel Tiger Lake). Commercial temperature range.		
conga-TC570/CSA-HP-B	050350	Standard active cooling solution for high performance COM Express module conga-TC570 with integrated heat pipes, 25.5mm overall heat sink height and integrated 12V fan. All standoffs are with 2.7mm bore hole.		
conga-TC570/CSA-HP-T	050351	Standard active cooling solution for high performance COM Express module conga-TC570 with integrated heat pipes, 25.5mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm thread.		
conga-TC570/CSP-HP-B	050352	Standard passive cooling solution for high performance COM Express module conga-TC570 with integrated heat pipes, 24.3mm overall heat sink height. All standoffs are with 2.7mm bore hole.		
conga-TC570/CSP-HP-T	050353	Standard passive cooling solution for high performance COM Express module conga-TC570 with integrated heat pipes, 24.3mm overall heat sink height. All standoffs are M2.5mm thread.		
conga-TC570/HSP-HP-B	050354	Standard heatspreader for high performance COM Express module conga-TC570 with integrated heat pipes, 11mm overall heat sink height. All standoffs are with 2.7mm bore hole.		
conga-TC570/HSP-HP-T	050355	Standard heatspreader for high performance COM Express module conga-TC570 with integrated heat pipes, 11mm overall heat sink height. All standoffs are M2.5mm thread.		
conga-TEVAL/COMe 3.0	065810	Evaluation Carrier Board for COM Express Type 6 modules.		

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conga-TC570r/6305E-4G conga-TC570r/i3-1115GRE-8G conga-TC570r/i5-1145GRE-16G TC570r/i7-1185GRE-32G