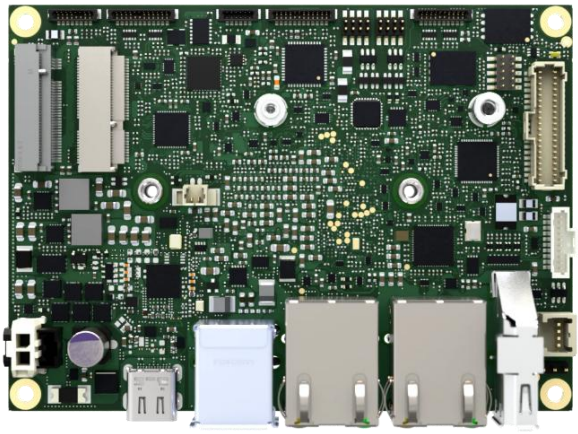
Intel® Core™ Processors Series 3

conga-PC300

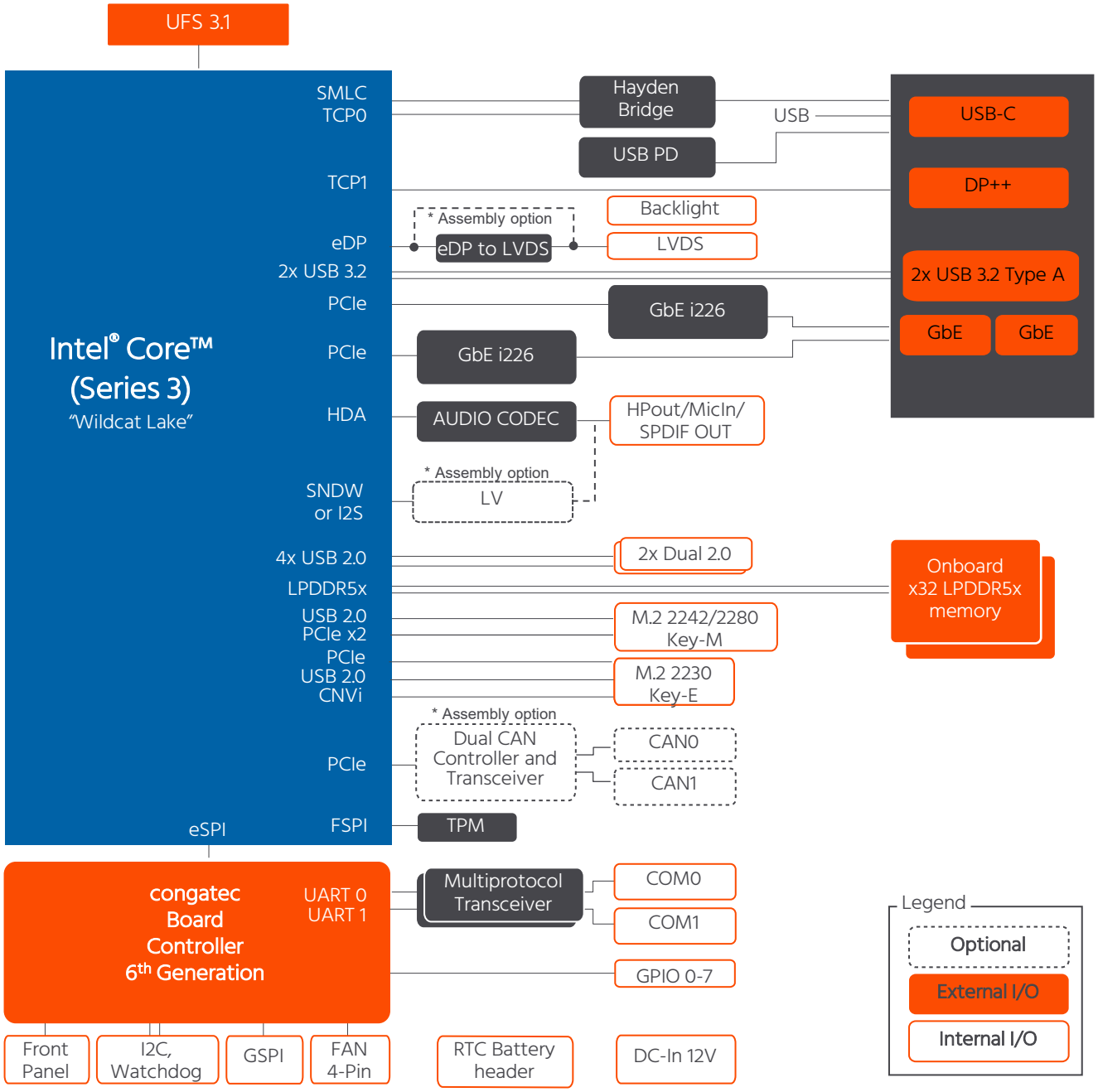


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- Intel® performance hybrid architecture supporting up to 6 CPU cores
- Latest Xᵉ3 GPU architecture with XMX systolic arrays
- Variants with Integrated NPU 5.0 with up to 18 TOPS for dedicated, low power AI inferencing
- Various expansion possibilities via M.2 slots

Form factor	Pico-ITX Single Board Computer	
CPUs	Intel® Core™ Processors (Series 3) Wildcat Lake	
DRAM	Up to 4 Channels onboard LPDDR5x with up to 7,467 MT/s | max. system capacity 48 GB	
Mass Storage	UFS 3.1 64 GB or 128 GB (optional up to 1 TB)	
Graphics	Intel Xᵉ 3 Graphics | Up to 18 TOPS Intel® XMX Matrix Engines	
AI Acceleration	Integrated NPU 5.0 with up to 18 TOPS (only on selected product variants)	
Internal Connectors	2x Dual USB 2.0 | M.2 key M type 2242/2280 (2 PCIe lanes) | M.2 key E type 2230 (PCIe, USB 2.0, CNVI) | LVDS 18/24bit (optional eDP) | LCD Backlight | Audio Connector (HP/Line Out, Mic In, SPDIF OUT) (optional SNDW/I2S) | 2x COM (RS232/422/485) | 8x GPIO | Fan header with PWM | Feature Connectors | 2x CAN (opt.) | Front panel | GSPI | DC-In	
External Connectors	DisplayPort DP++ | 2x LAN RJ45 | USB Type C (with Power Delivery and DP) | 2x USB Type A	
congatec Board Controller	Next Gen 6 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	
Embedded BIOS Feature	AMI Aptio® UEFI firmware | 64 Mbyte serial SPI with congatec Embedded BIOS feature | OEM Logo | OEM CMOS default settings | LCD Control | Display Auto Detection | Backlight Control | Flash Update	
Security	Trusted Platform Module (TPM 2.0)	
Power Management	ACPI 6.0 with battery support	
Operating Systems	Microsoft® Windows 11 IoT Enterprise | Microsoft® Windows 11 | Linux | Ubuntu	
Hypervisor	conga-zones	
Temperature Range	Operating 0°C to 60°C	Storage -20°C to 80°C
Humidity	Operating 10% to 85% r. H. non cond.	Storage 5% to 85% r. H. non cond.
Size	100 x 72 mm	

conga-PC300 | Block Diagram



Note: * Assembly options on request only.

NOTES

⬚ = Assembly option available on request only

conga-PC300 | Modules Order Information

Article	PN	Description
conga-PC300/7-350-16GB UFS128	053900	Pico-ITX board based on Intel® Core™ 7 processor 350 with 2 P-cores and 4 LPE-cores | Integrated NPU | 6MB Intel® Smart Cache | Intel® Graphics with 2 Xe-cores | 16GB onboard LPDDR5x memory | 128GB onboard UFS | Intel code name Wildcat Lake
conga-PC300/5-320-8G UFS64	053901	Pico-ITX board based on Intel® Core™ 5 processor 320 with 2 P-cores and 4 LPE-cores | Integrated NPU | 6MB Intel® Smart Cache | Intel® Graphics with 2 Xe-cores | 8GB onboard LPDDR5x memory | 64GB onboard UFS | Intel code name Wildcat Lake
conga-PC300/3-305-8G UFS64	053902	Pico-ITX board based on Intel® Core™ 3 processor 305 with 2 P-cores and 4 LPE-cores | 6MB Intel® Smart Cache | Intel® Graphics with 1 Xe-core | 8GB onboard LPDDR5x memory | 64GB onboard UFS | Intel code name Wildcat Lake
conga-PC300/3-304-8G UFS64	053903	Pico-ITX board based on Intel® Core™ 3 processor 304 with 1 P-core and 4 LPE-cores | Integrated NPU | 6MB Intel® Smart Cache | Intel® Graphics with 1 Xe-core | 8GB onboard LPDDR5x memory | 64GB onboard UFS | Intel code name Wildcat Lake

conga-PC300 | Accessories Order Information

Article	PN	Description
conga-PC300/CSP-T	053950	Standard passive cooling solution for conga-PC300, 25mm height. All standoffs are M2.5 threaded.
conga-PC300/HSP-B	053951	Standard heatspreader for conga-PC300, 8mm height. All standoffs are with 2.7mm bore hole.
conga-PC300/HSP-T	053952	Standard heatspreader for conga-PC300, 8mm height. All standoffs are M2.5 threaded.

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Revision 0.1 – 2026-Oct-21