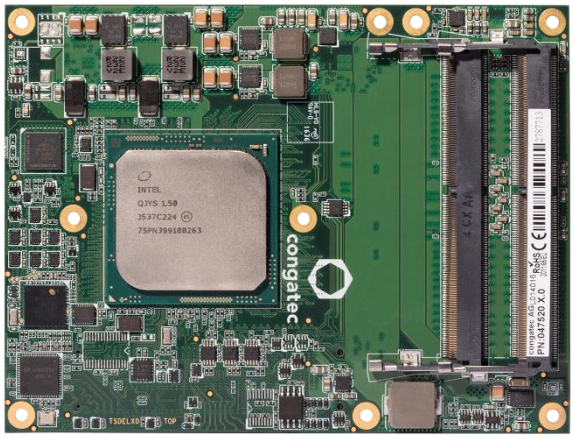
SERVER ON MODULE

conga-B7XD

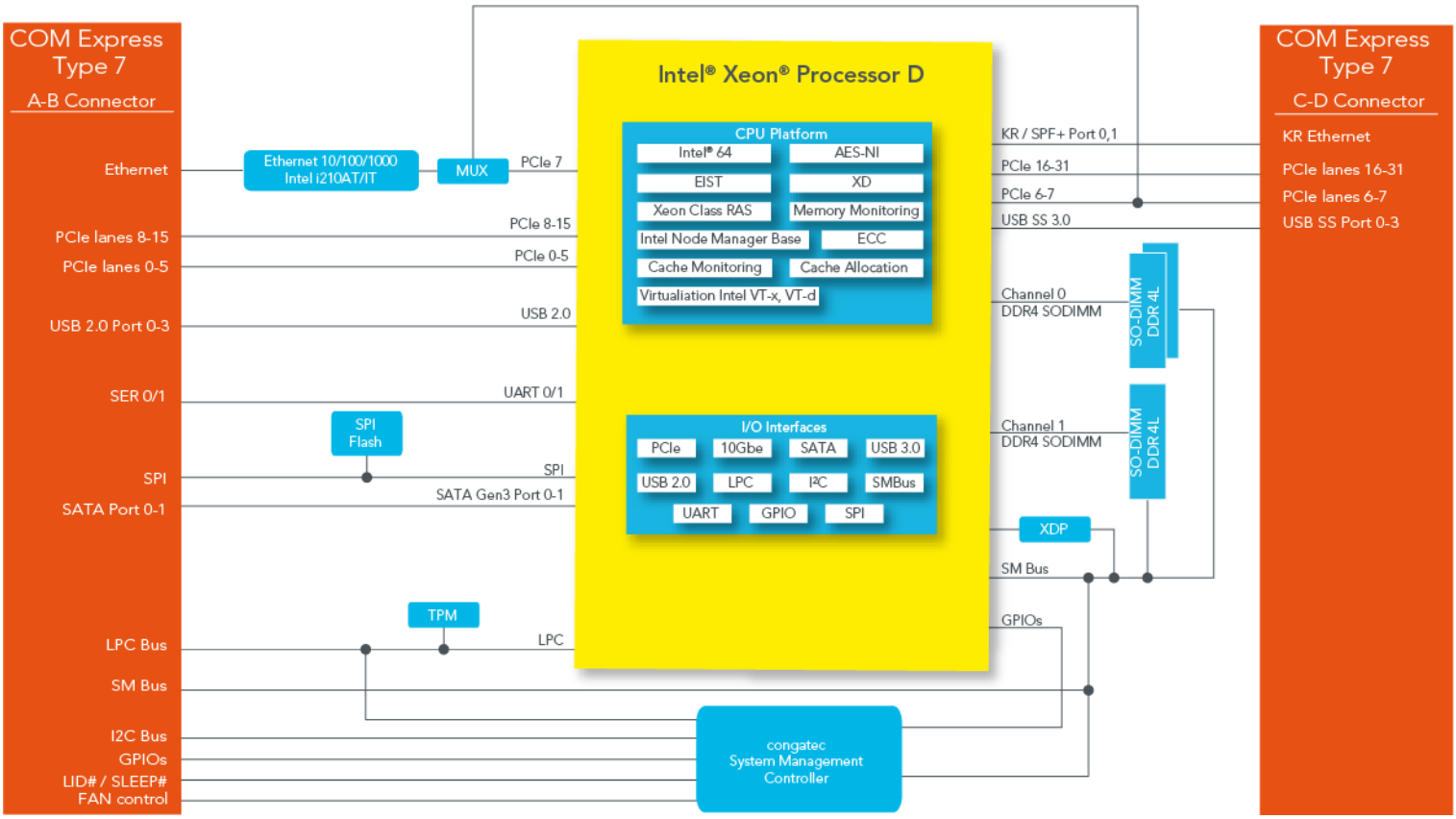


- COM Express Type 7
- Up to Intel® Xeon® D 1577 with 16 cores and 24 MB Cache
- 2x 10 Gigabit Ethernet KR Interface
- 32 PCI Express lanes
- Industrial grade variants
- Server Class Features (RAS, QoS, Virtualization, Security, Manageability)

COM Express®

Formfactor	COM Express® Basic, (95 x 125 mm) | Type 7 connector pinout
CPU	**Commercial Versions** Intel® Xeon® D1577 — 1.3 GHz | 2.1 GHz (boost) — 16 Cores — 24 MB cache — 45W TDP Intel® Xeon® D1567 — 2.1 GHz | 2.7 GHz (boost) — 12 Cores — 18 MB cache — 65W TDP Intel® Xeon® D1548 — 2.0 GHz | 2.6 GHz (boost) — 8 Cores — 12 MB cache — 45W TDP Intel® Xeon® D1527 — 2.2 GHz | 2.7 GHz (boost) — 4 Cores — 6 MB cache — 35W TDP Intel® Pentium™ D1509 — 1.5 GHz | 2.7 GHz (boost) — 2 Cores — 3 MB cache — 19W TDP Intel® Pentium™ D1508 — 2.2 GHz | 2.6 GHz (boost) — 2 Cores — 3 MB cache — 25W TDP **Industrial Versions** Intel® Xeon® D1559 — 1.5 GHz | 2.1 GHz (boost) — 12 Cores — 18 MB cache — 45W TDP Intel® Xeon® D1539 — 1.6 GHz | 2.2 GHz (boost) — 8 Cores — 12 MB cache — 35W TDP Intel® Xeon® D1529 — 1.3 GHz — 4 Cores — 6 MB cache — 20W TDP Intel® Pentium™ D1519 — 1.5 GHz | 2.1 GHz (boost) — 4 Cores — 6 MB cache — 25W TDP
DRAM	Dual channel DDR4 up to 2400 MT/s | 3x SO-DIMM | up to 3x 32 GByte (optionally with ECC support for Intel® Xeon®)
Chipset	Integrated in SoC
Ethernet	1x Intel I210AT /IT Gigabit Ethernet Controller | 2x 10GbE with KR interface support
I/O Interfaces	24x PCIe Gen3 | 8x PCIe Gen2 | 4x USB 3.0 | 4x USB 2.0 | 2x SATA III (6Gb/s) | LPC | SPI | I²C bus (fast mode 400 kHz, multi-master) | 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)
Power Management	ACPI 5.0 with battery support
Operating Systems	**Windows 64 bit OS** Microsoft® Windows Server 2016 Microsoft® Windows Server 2012 R2 Microsoft® Windows Server 2012 Microsoft® Windows Server 2008 R2 SP1 Microsoft® Windows 10 Enterprise Microsoft® Windows 8.1 64b Microsoft® Windows 7 64b **Open Source & Frameworks** RHEL 6.6 & 7.1 SuSE 11 SP4 & 12 SP1 Fedora 22 Ubuntu 14.10 CentOS 6.6 & 7.1 FreeBSD **Other** RTS Hypervisor VMware Hyper-V Xen ESXI
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")

conga-B7XD | Block diagram



conga-B7XD | Order Information – COMe Modules

Article	PN	Description
conga-B7XD/X-D1577	047500	COM Express Type 7 Basic module with Intel® Xeon® D1577 processor with 16 Cores, 1.3GHz up to 2.1GHz core frequency, 24MB Cache and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 45W TDP, commercial temperature range.
conga-B7XD/X-D1567	047501	COM Express Type 7 Basic module with Intel® Xeon® D1567 processor with 12 Cores, 2.1GHz up to 2.7GHz core frequency, 18MB Cache and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 65W TDP, commercial temperature range.
conga-B7XD/X-D1548	047502	COM Express Type 7 Basic module with Intel® Xeon® D1548 processor with 8 Cores, 2.0GHz up to 2.6GHz core frequency, 12MB Cache with and 2400 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 45W TDP, commercial temperature range.
conga-B7XD/X-D1527	047503	COM Express Type 7 Basic module with Intel® Xeon® D1527 processor with 4 Cores, 2.2GHz up to 2.7GHz core frequency, 6MB Cache with and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 35W TDP, commercial temperature range.
conga-B7XD/P-D1509	047504	COM Express Type 7 Basic module with Intel® Pentium™ D1509 processor with 2 Cores, 1.5GHz core frequency, 3MB Cache and 1600 MT/s dual channel DDR4 memory interface for up to 96GB. 19W TDP, commercial temperature range.
conga-B7XD/P-D1508	047505	COM Express Type 7 Basic module with Intel® Pentium™ D1508 processor with 2 Cores, 2.2GHz up to 2.6GHz core frequency, 3MB Cache and 1866 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 25W TDP, commercial temperature range.
conga-B7XD/i-X-D1559	047520	COM Express Type 7 Basic module with Intel® Xeon® D1559 processor with 12 Cores, 1.5GHz up to 2.1GHz core frequency, 18MB Cache and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 45W TDP, industrial temperature range.
conga-B7XD/i-X-D1539	047521	COM Express Type 7 Basic module with Intel® Xeon® D1539 processor with 8 Cores, 1.6GHz up to 2.2GHz core frequency, 12MB Cache and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 35W TDP, industrial temperature range.
conga-B7XD/i-X-D1529	047522	COM Express Type 7 Basic module with Intel® Xeon® D1529 processor with 4 Cores, 1.3GHz core frequency, 6MB Cache and 1600 MT/s dual channel DDR4 memory interface for up to 96GB. 20W TDP, industrial temperature range.
conga-B7XD/i-P-D1519	047523	COM Express Type 7 Basic module with Intel® Pentium™ D1519 processor with 4 Cores, 1.5GHz up to 2.1GHz core frequency, 6MB Cache and 2133 MT/s dual channel DDR4 memory interface for up to 96GB. Features two 10GbE KR interface ports. 25W TDP, industrial temperature range.

conga-B7XD | Order Information – Cooling Solutions

Article	PN	Description
B7XD/CSA-HP-T	047530	Standard active cooling solution for high performance COM Express Type 7 module conga-B7XD with integrated heat pipes, 70mm radial 12V PWM fan and 30mm overall heat sink height. All standoffs are M2.5mm threaded.
B7XD/CSA-HP-B	047531	Standard active cooling solution for high performance COM Express Type 7 module conga-B7XD with integrated heat pipes, 70mm radial 12V PWM fan and 30mm overall heat sink height. All standoffs are with 2.7mm bore hole.
B7XD/HSP-VC-T	047532	Standard heatspreader for high performance COM Express Type 7 module conga-B7XD with integrated vapor chamber. All standoffs are M2.5mm threaded.
B7XD/HSP-VC-B	047533	Standard heatspreader for high performance COM Express Type 7 module conga-B7XD with integrated vapor chamber. All standoffs are with 2.7mm bore hole.
B7XD/CSA-Cu-B	047535	Standard active cooling solution for low and mid range performance COM Express Type 7 module conga-B7XD with integrated copper plate, 70mm 12V radial FAN and 27mm overall heat sink height. Intended for modules with TDP up to 35W * Cu = Copper plate | * B = 2.7mm Bore hole standoffs
B7XD/CSA-Cu-T	047536	Standard active cooling solution for low and mid range performance COM Express Type 7 module conga-B7XD with integrated copper plate, 70mm 12V radial FAN and 27mm overall heat sink height. Intended for modules with TDP up to 35W * Cu = Copper plate | * T = M2.5 Threaded standoffs
B7XD/CSP-Cu-B	047537	Standard passive cooling solution for low and mid range performance COM Express Type 7 module conga-B7XD with integrated copper plate and 26mm overall heat sink height. Intended for modules with TDP up to 20W * Cu = Copper plate | * B = 2.7mm Bore hole standoffs
B7XD/CSP-Cu-T	047538	Standard passive cooling solution for low and mid range performance COM Express Type 7 module conga-B7XD with integrated copper plate and 26mm overall heat sink height. Intended for modules with TDP up to 20W * Cu = Copper plate | * T = M2.5 Threaded standoffs
B7XD/HSP-Cu-B	047539	Standard heatspreader for COM Express Type 7 module conga-B7XD with integrated copper plate and 11mm overall height. * Cu = Copper plate | * B = 2.7mm Bore hole standoffs
B7XD/HSP-Cu-T	047540	Standard heatspreader for COM Express Type 7 module conga-B7XD with integrated copper plate and 11mm overall height. * Cu = Copper plate | * T = M2.5 Threaded standoffs

conga-B7XD | Order Information - Accessories

Article	PN	Description
DDR4-SODIMM-2400 (4GB) TSDE	068728	DDR4 SODIMM memory module with 2400 MT/s and 4GB RAM for conga-B7XD
DDR4-SODIMM-2400 (8GB) TSDE	068724	DDR4 SODIMM memory module with 2400 MT/s and 8GB RAM for conga-B7XD
DDR4-SODIMM-2400 (16GB)	068792	DDR4 SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2666 (32GB)	068806	DDR4 SODIMM memory module with 2666 MT/s and 32GB RAM
DDR4-SODIMM-2400 ECC (4GB) TSDE	068729	DDR4 ECC SODIMM memory module with 2400 MT/s and 4GB RAM for conga-B7XD
DDR4-SODIMM-2400 ECC (8GB) TSDE	068725	DDR4 ECC SODIMM memory module with 2400 MT/s and 8GB RAM for conga-B7XD
DDR4-SODIMM-2400 ECC (16GB)	068797	DDR4 ECC SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2666 ECC (32GB)	068805	DDR4 ECC SODIMM memory module with 2666 MT/s and 32GB RAM
DDR4-SODIMM-2400 (4GB) / i-temp TSDE	068726	Industrial DDR4 SODIMM memory module with 2400 MT/s and 4GB RAM for conga-B7XD
DDR4-SODIMM-2400 (8GB) / i-temp TSDE	068722	Industrial DDR4 SODIMM memory module with 2400 MT/s and 8GB RAM for conga-B7XD
DDR4-SODIMM-2400 (16GB) / i-temp	068716	Industrial DDR4 SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2666 (32GB) / i-temp	068807	Industrial DDR4 SODIMM memory module with 2666 MT/s and 32GB RAM
DDR4-SODIMM-2400 ECC (4GB) / i-temp TSDE	068727	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 4GB RAM for conga-B7XD
DDR4-SODIMM-2400 ECC (8GB) / i-temp TSDE	068723	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 8GB RAM for conga-B7XD
DDR4-SODIMM-2400 ECC (16GB) / i-temp	068719	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2666 ECC (32GB) / i-temp	068808	Industrial DDR4 ECC SODIMM memory module with 2666 MT/s and 32GB 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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LifeElectronics
Живое партнерство

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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

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