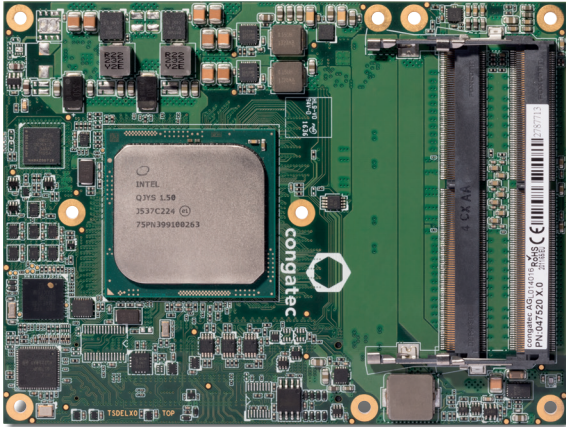


# SERVER ON MODULE

## conga-B7XD

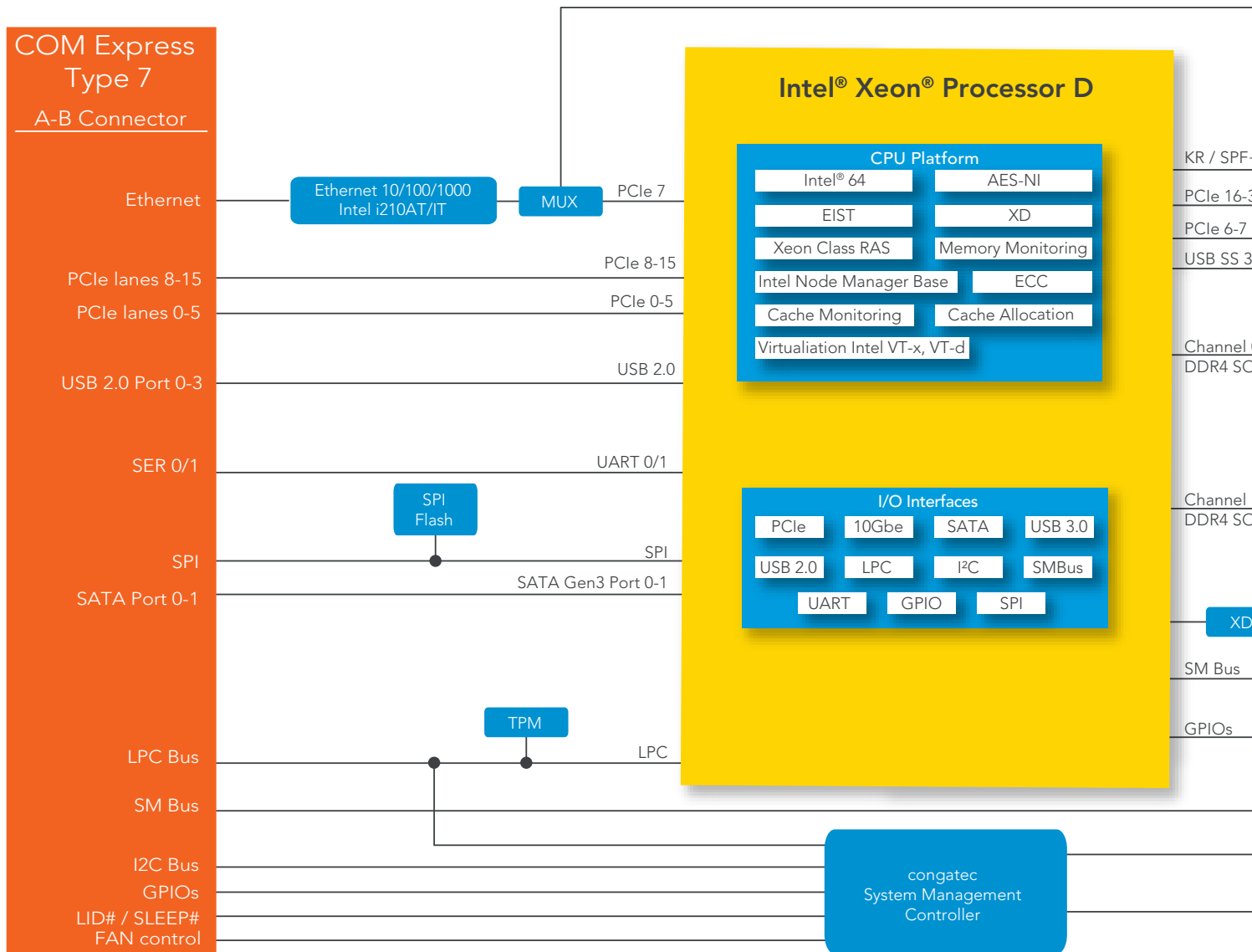


- COM Express Type 7
- Up to Intel® Xeon® D 1577 with 16 Cores and 24MB Cache
- 2x 10 Gigabit Ethernet KR Interface
- 32 PCI Express lanes
- Industrial grade variants
- Server Class Features (RAS, QoS, Virtualization, Security, Manageability)



Formfactor	Formfactor COM Express® Basic   (95 x 125 mm)   Type 7 Connector Pinout																																																				
CPU	<p><b>Commercial versions</b></p> <table border="1"> <tr> <td>Intel® Xeon® D1577</td> <td>1.3 GHz   2.1 GHz</td> <td>16 Cores</td> <td>24MB cache</td> <td>45W TDP</td> </tr> <tr> <td>Intel® Xeon® D1567</td> <td>2.1 GHz   2.7 GHz</td> <td>12 Cores</td> <td>18MB cache</td> <td>65W TDP</td> </tr> <tr> <td>Intel® Xeon® D1548</td> <td>2.0 GHz   2.6 GHz</td> <td>8 Cores</td> <td>12MB cache</td> <td>45W TDP</td> </tr> <tr> <td>Intel® Xeon® D1527</td> <td>2.2 GHz   2.7 GHz</td> <td>4 Cores</td> <td>6MB cache</td> <td>35W TDP</td> </tr> <tr> <td>Intel® Pentium™ D1509</td> <td>1.5 GHz   2.7 GHz</td> <td>2 Cores</td> <td>3MB cache</td> <td>19W TDP</td> </tr> <tr> <td>Intel® Pentium™ D1508</td> <td>2.2 GHz   2.6 GHz</td> <td>2 Cores</td> <td>3MB cache</td> <td>25W TDP</td> </tr> </table> <p><b>Industrial versions</b></p> <table border="1"> <tr> <td>Intel® Xeon® D1559</td> <td>1.5 GHz Clock   2.1 GHz (Burst)</td> <td>12 Cores</td> <td>18 MB cache</td> <td>45W TDP</td> </tr> <tr> <td>Intel® Xeon® D1539</td> <td>1.6 GHz Clock   2.2 GHz (Burst)</td> <td>8 Cores</td> <td>12 MB cache</td> <td>35W TDP</td> </tr> <tr> <td>Intel® Xeon® D1529</td> <td>1.3 GHz Clock</td> <td>4 Cores</td> <td>6MB cache</td> <td>20W TDP</td> </tr> <tr> <td>Intel® Pentium™ D1519</td> <td>1.5 GHz Clock   2.1 GHz (Burst)</td> <td>4 Cores</td> <td>6MB cache</td> <td>25W TDP</td> </tr> </table>			Intel® Xeon® D1577	1.3 GHz   2.1 GHz	16 Cores	24MB cache	45W TDP	Intel® Xeon® D1567	2.1 GHz   2.7 GHz	12 Cores	18MB cache	65W TDP	Intel® Xeon® D1548	2.0 GHz   2.6 GHz	8 Cores	12MB cache	45W TDP	Intel® Xeon® D1527	2.2 GHz   2.7 GHz	4 Cores	6MB cache	35W TDP	Intel® Pentium™ D1509	1.5 GHz   2.7 GHz	2 Cores	3MB cache	19W TDP	Intel® Pentium™ D1508	2.2 GHz   2.6 GHz	2 Cores	3MB cache	25W TDP	Intel® Xeon® D1559	1.5 GHz Clock   2.1 GHz (Burst)	12 Cores	18 MB cache	45W TDP	Intel® Xeon® D1539	1.6 GHz Clock   2.2 GHz (Burst)	8 Cores	12 MB cache	35W TDP	Intel® Xeon® D1529	1.3 GHz Clock	4 Cores	6MB cache	20W TDP	Intel® Pentium™ D1519	1.5 GHz Clock   2.1 GHz (Burst)	4 Cores	6MB cache	25W TDP
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DRAM	up to 3 SO-DIMM sockets for DDR4 memory modules up to 16 GByte each (48 GByte total) with 2400 MT/s   ECC and non-ECC supported																																																				
Chipset	Integrated in SoC																																																				
Ethernet	1x Intel I210AT /IT Gigabit Ethernet Controller   2x 10GbE with KR interface support - the 10GbE PHY must be implemented on the carrier board																																																				
I/O Interfaces	24x PCIe Gen3   8x PCIe Gen2   4x USB 3.0   4x USB 2.0   2x SATA III (6Gb/s)   LPC   SPI   I <sup>2</sup> C 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   I <sup>2</sup> C 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)   Hash and RSA algorithms   key lengths up to 2048 bits   real random number generator																																																				
Power Management	ACPI 5.0 with battery support																																																				
Operating Systems	<p><b>Windows 64 bit OS</b></p> <ul style="list-style-type: none"> <li>Microsoft® Windows Server 2016</li> <li>Microsoft® Windows Server 2012 R2</li> <li>Microsoft® Windows Server 2012</li> <li>Microsoft® Windows Server 2008 R2 SP1</li> <li>Microsoft® Windows 10 Enterprise</li> <li>Microsoft® Windows 8.1 64b</li> <li>Microsoft® Windows 7 64b</li> </ul>	<p><b>Open Source OS &amp; Frameworks</b></p> <ul style="list-style-type: none"> <li>RHEL 6.6 &amp; 7.1</li> <li>SuSE 11 SP4 &amp; 12 SP1</li> <li>Fedora 22</li> <li>Ubuntu 14.10</li> <li>CentOS 6.6 &amp; 7.1</li> <li>FreeBSD</li> </ul>	<p><b>Other</b></p> <ul style="list-style-type: none"> <li>VMware</li> <li>Hyper-V</li> <li>Xen</li> <li>ESXi</li> </ul>																																																		
Power Consumption	see user's guide for full details   CMOS Battery Backup																																																				
Temperature	<table border="1"> <tr> <td>Industrial:</td> <td>Operating: -40 to +85°C</td> <td>Storage: -40 to +85°C</td> </tr> <tr> <td>Commercial :</td> <td>Operating: 0 to +60°C</td> <td>Storage: -40 to +85°C</td> </tr> </table>			Industrial:	Operating: -40 to +85°C	Storage: -40 to +85°C	Commercial :	Operating: 0 to +60°C	Storage: -40 to +85°C																																												
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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

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 48GB. 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 48GB. 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 and 2400 MT/s dual channel DDR4 memory interface for up to 48GB. 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 and 2133 MT/s dual channel DDR4 memory interface for up to 48GB. 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 48GB. 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 48GB. 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 48GB. 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 48GB. 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 48GB. 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 48GB. Features two 10GbE KR interface ports. 25W TDP, industrial temperature range.
conga-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 thread.
conga-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.
conga-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 thread.
conga-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.
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 ECC (4GB)	068795	DDR4 ECC SODIMM memory module with 2400 MT/s and 4GB RAM
DDR4-SODIMM-2400 ECC (8GB)	068796	DDR4 ECC SODIMM memory module with 2400 MT/s and 8GB RAM
DDR4-SODIMM-2400 ECC (16GB)	068797	DDR4 ECC SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2400 (4GB) / i-temp	068714	Industrial DDR4 SODIMM memory module with 2400 MT/s and 4GB RAM
DDR4-SODIMM-2400 (8GB) / i-temp	068715	Industrial DDR4 SODIMM memory module with 2400 MT/s and 8GB RAM
DDR4-SODIMM-2400 (16GB) / i-temp	068716	Industrial DDR4 SODIMM memory module with 2400 MT/s and 16GB RAM
DDR4-SODIMM-2400 ECC (4GB) / i-temp	068717	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 4GB RAM
DDR4-SODIMM-2400 ECC (8GB) / i-temp	068718	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 8GB RAM
DDR4-SODIMM-2400 ECC (16GB) / i-temp	068719	Industrial DDR4 ECC SODIMM memory module with 2400 MT/s and 16GB RAM
<b>Accessories</b>		
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 Ph's. The carrier features an Aspeed AST2500 Board Management Controller (BMC).
COM Express Connector AB, High Speed, Type 7	41500615	COM Express Connector AB, High Speed (10Gbs), Type 7

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