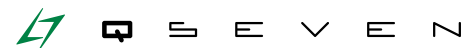


HIGHEST QSEVEN PERFORMANCE

conga-QA4

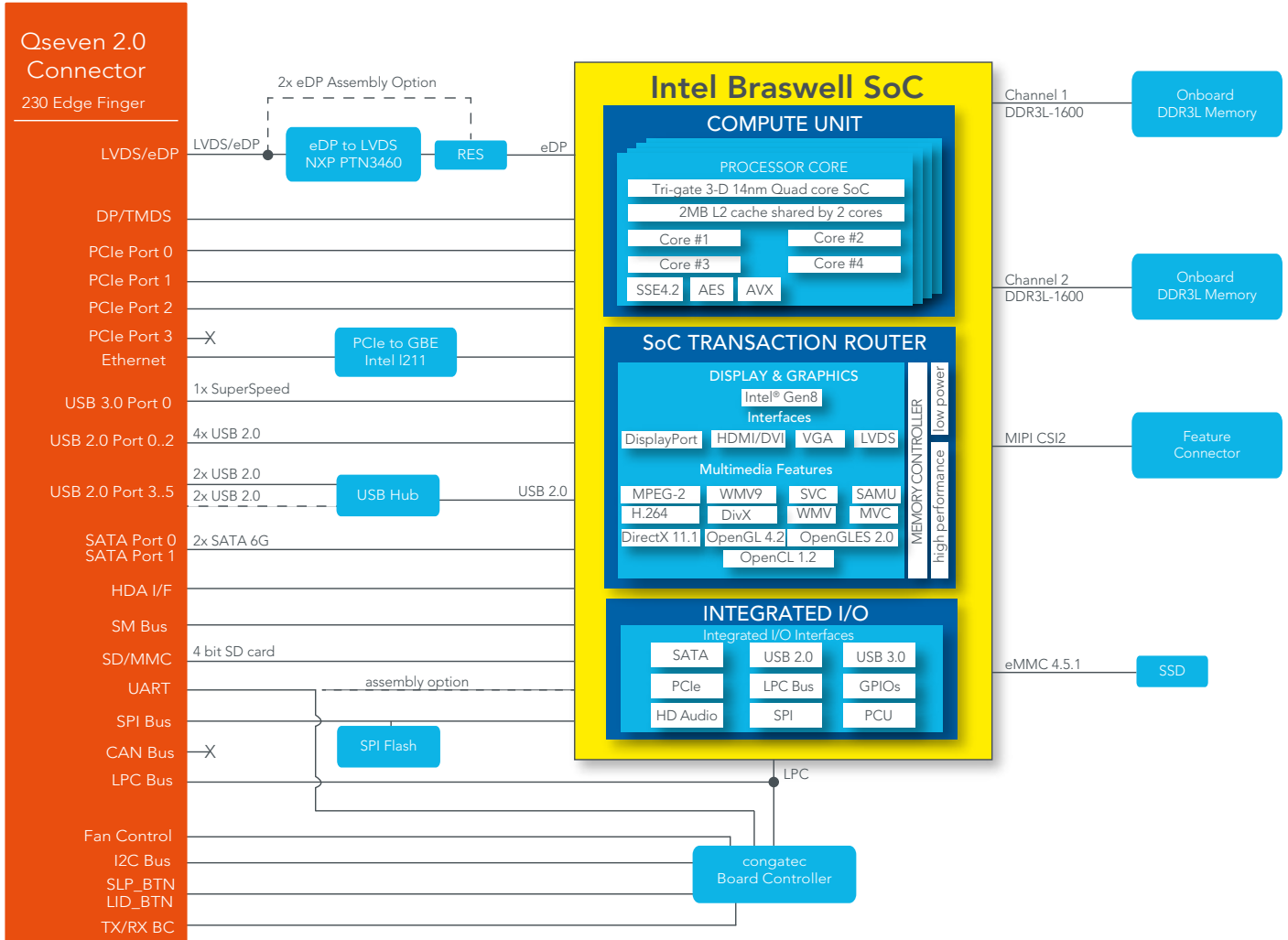


- First Intel® Pentium® QuadCore on Qseven
- High performance Intel® Gen. 8 graphics
- Up to 4k resolution (3840x2160px)
- 3x independent display support optional
- MIPI-CSI 2.0 for up to 2x HD Cameras
- HW accelerating Video decoding with H.265/HEVC
- Fast I/Os SATA3, USB 3.0 and PCIe 2.0



Formfactor	Qseven Form Factor Rev. 2.0 compliant 70x70 mm					
CPU	Intel® Pentium® N3700	2.4 GHz (Burst)	1.6 GHz Clock	Quad Core	L2 cache 2MB	4W SDP 6W TDP
	Intel® Celeron® N3150	2.08 GHz (Burst)	1.6 GHz Clock	Quad Core	L2 cache 2MB	4W SDP 6W TDP
	Intel® Celeron® N3050	2.16 GHz (Burst)	1.6 GHz Clock	Dual Core	L2 cache 2MB	4W SDP 6W TDP
	Intel® Celeron® N3000	2.08 GHz (Burst)	1.04 GHz Clock	Dual Core	L2 cache 2MB	3W SDP 4W TDP
DRAM	Dual Channel up to 8GB onboard DDR3L with 1600 MT/s					
Chipset	Integrated in SoC					
Ethernet	Intel® I211 Gigabit Ethernet controller					
I/O Interfaces	8x USB 2.0 or 1x USB 3.0 and 5x USB 2.0 2x SATA3 1x SDIO 3x PCIe Gen2 I ² C Bus LPC bus 1x SPI					
Mass Storage	eMMC 4.5.1 onboard flash up to 64 GByte optional					
Sound	Intel® High Definition Audio (Intel® HD Audio)					
Graphics	Intel® Gen 8 HD Graphics with support for DirectX11.1 OpenGL 4.2 OpenCL 1.2 OpenGLES 2.0 MPEG2 full HW acceleration with H.265/HEVC decoding and H.264 encoding MVC and 2x independent display support in 4K (3840 x 2160 px) @30 Hz or WQXGA (2560 x 1600 px) @60 Hz					
LVDS	Dual channel LVDS transmitter support for flat panels with 2x24 bit data mapping up to a resolution of 1920x1200 @60Hz shared with 2x eDP (option)					
DisplayPort Interface (DDI)	DisplayPort 1.1a up to 3840x2160px or HDMI 1.4b up to 3840x2160px additional 2x eDP (option shared with LVDS)					
Camera Interface	MIPI-CSI 2.0 support on feature connector for up to 2x HD Cameras (SGET Qseven Specification 2.0 Addendum)					
congatec Board controller	Multistage watchdog non-volatile user data storage manufacturing and board Information board statistics I ² C bus (fast mode 400 kHz multi master) power loss control					
Embedded BIOS Features	AMI Aptio® UEFI 2.x firmware 8 MByte serial SPI with congatec Embedded BIOS features OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update					
Power Management	ACPI 5.0 compliant Smart Battery Management					
Operating Systems	Microsoft® Windows 10 Microsoft® Windows 8 Microsoft® Windows 8 embedded Microsoft® Windows 7 Microsoft® Windows 7 embedded compact Linux					
Power Consumption	Typ. application 3...4W (Processor SDP Scenario Design Power)					
Temperature	Commercial :	Operating: 0 to +60°C		Storage: -20 to +80°C		
Humidity	Operating:	10 to 90% r. H. non cond.		Storage:		
		5 to 95% r. H. non cond.				
Size	70 x 70 mm (2¾" x 2¾")					

conga-QA4 | Block diagram



conga-QA4 | Order Information

Article	PN	Description
conga-QA4/N3700-4G eMMC16	015200	Qseven module with Intel® Pentium® N3700 quad core processor with 1.60GHz core frequency up to 2.40GHz burst, 2MB L2 cache, 4GB 1600MT/s DDR3L onboard memory, 16GB eMMC onboard flash and 1x USB 3.0 + 5x USB 2.0.
conga-QA4/N3150-2G eMMC16	015201	Qseven module with Intel® Celeron™ N3150 quad core processor with 1.60GHz core frequency up to 2.08GHz burst, 2MB L2 cache, 2GB 1600MT/s DDR3L onboard memory, 16GB eMMC onboard flash and 1x USB 3.0 + 5x USB 2.0.
conga-QA4/N3050-2G eMMC8	015202	Qseven module with Intel® Celeron™ N3050 dual core processor with 1.60GHz core frequency up to 2.16GHz burst, 2MB L2 cache, 2GB 1600MT/s DDR3L onboard memory, 8GB eMMC onboard flash and 8x USB 2.0.
conga-QA4/N3000-2G eMMC8	015203	Qseven module with Intel® Celeron™ N3000 dual core processor with 1.04GHz core frequency up to 2.08GHz burst, 2MB L2 cache, 2GB 1600MT/s DDR3L onboard memory, 8GB eMMC onboard flash and 8x USB 2.0.
conga-QA3/HSP-T	015190	Standard heatspreader for Qseven module conga-QA3. All standoffs are M2.5mm thread.
conga-QA3/HSP-B	015191	Standard heatspreader for Qseven module conga-QA3. All standoffs are with 2.7mm bore hole.
conga-QA3/CSP-T	015192	Passive cooling solution for Qseven module conga-QA3. All standoffs are M2.5mm thread.
conga-QA3/CSP-B	015193	Passive cooling solution for Qseven module conga-QA3. All standoffs are with 2.7mm bore hole.

Accessories

conga-QEVAL 2.0	007003	Evaluation platform for Qseven 2.0
conga-QKIT	077455	Starterkit for Qseven including conga-QEVAL, conga-LDVI/EPI, conga-FPA2, Dual DVI-D ADD2 Card, ATX power supply, ...
conga-HDMI/DisplayPort adapter	500014	The conga-HDMI/DisplayPort adapter is used to convert the graphic ports Port-B, Port-C and Port-D of to the HDMI or DisplayPort interface.
conga-Qseven/SBM3	025485	Mobility Starter Kit
conga-MCB/Qseven Cable Kit	14000041	Complete cable kit for Qseven mini carrier board
Qseven MXM Connector Aces	400018	Socket for Qseven Carrier Boards. 10pcs package. ACES standard type, SMT, lead free, 230 positions, 0.50mm pitch, 7.8mm height.
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM