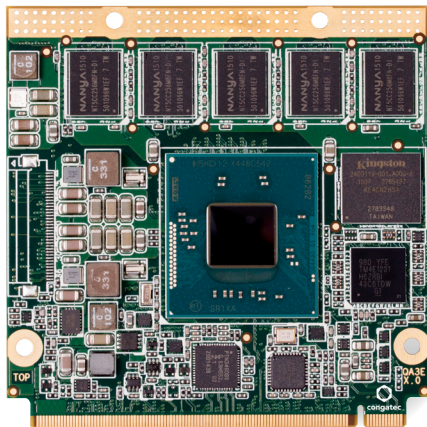


ERROR PROTECTED RAM

conga-QA3E

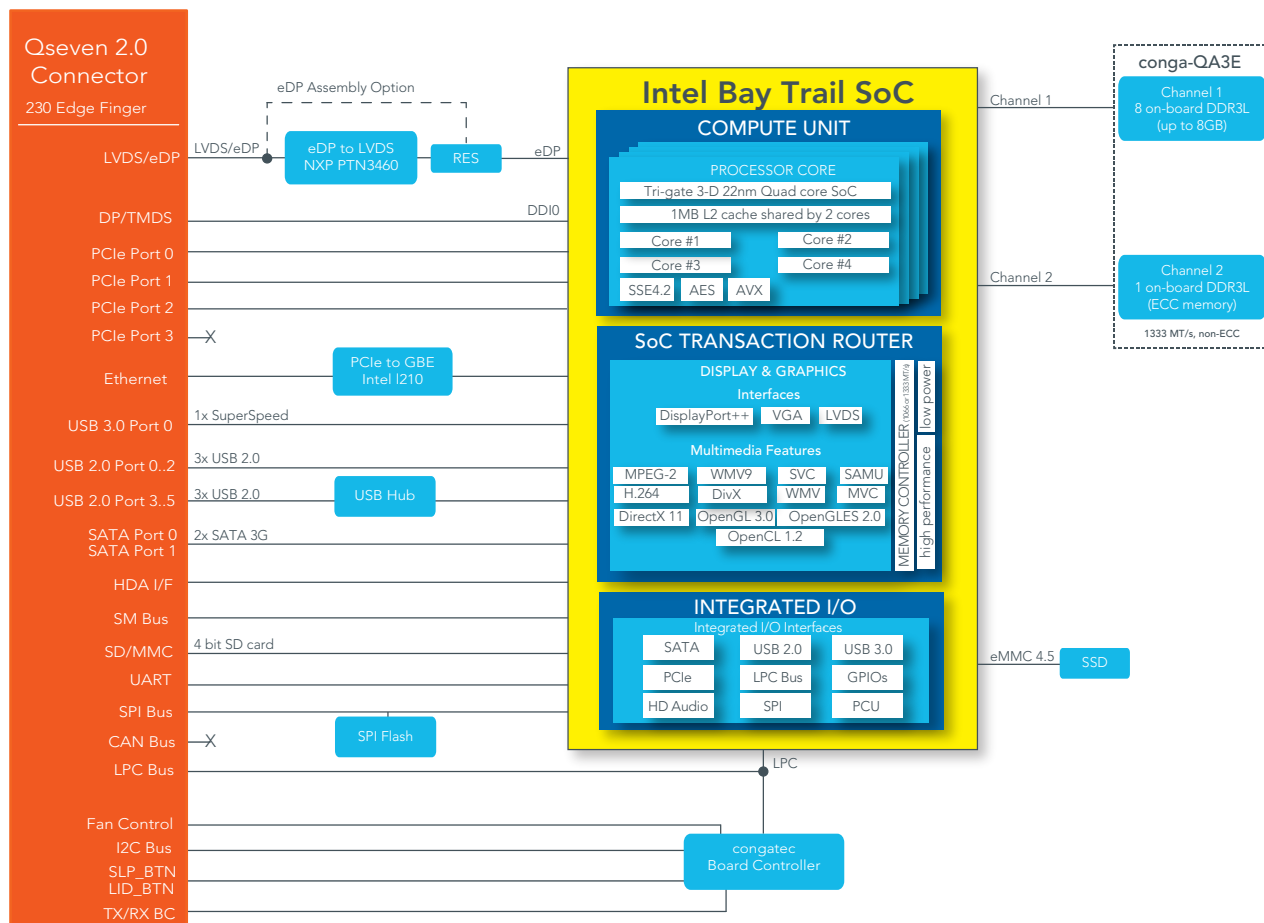


- 3rd Gen. Intel® Atom™
- ECC protected memory up to 8 GByte
- High resolution Intel® Gen. 7 graphics
- Temperature range up to 0°C .. +60°C



Formfactor	Qseven Form Factor Rev. 2.0 compliant 70x70 mm			
CPU	Intel® Atom™ E3815 Intel® Atom™ E3845	1.46 GHz Single Core 1.91 GHz QuadCore	L2 cache 512kB L2 cache 2MB	5W TDP 10W TDP
DRAM	up to 8GB onboard ECC DDR3L with 1333 MT/s			
Chipset	Integrated in SoC			
Ethernet	Intel® I210 Gigabit Ethernet controller			
I/O Interfaces	6x USB 2.0 or 1x USB 3.0 and 5x USB 2.0 2x SATA 1x SDIO 3x PCIe I²C Bus LPC bus 1x SPI			
Mass Storage	eMMC 5.0 onboard flash up to 64 GByte (optional only for Intel® Atom™)			
Sound	Intel® High Definition Audio (Intel® HD Audio)			
Graphics	Intel® HD Graphics with support for DirectX11 OpenGL 3.0 OpenCL 1.2 OpenGLES 2.0 full HW acceleration for decode/encode of MPEG2, H.264 MVC and dual simultaneous display support			
LVDS	Dual channel LVDS transmitter support for flat panels with 2x24 bit data mapping up to a resolution of 1920x1200@60Hz			
DisplayPort Interface (DDI)	DisplayPort++ up to 2560x1600			
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			
Embedded BIOS Features	AMI Aptio® UEFI 2.x firmware; 8 MByte serial SPI with congatec Embedded BIOS features (OEM Logo OEM CMOS Defaults LD Control Display Auto Detection Backlight Control Flash Update)			
Power Management	ACPI 5 .0 compliant Smart Battery Management			
Operating Systems	Microsoft® Windows 10 Microsoft® Windows 10 IoT Enterprise Microsoft® Windows 10 IoT Core Microsoft® Windows 8 Microsoft® Windows 8 embedded Microsoft® Windows 7 Microsoft® Windows 7 embedded compact Linux Android Yocto MoonIsland / WindRiver IDP			
Power Consumption	Typ. application 4.5W...12W			
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-QA3E | Block diagram



conga-QA3E | Order Information

Article	PN	Description
conga-QA3E/E3815-2G eMMC4	018104	Qseven module with Intel® Atom™ E3815 single core processor with 1.46GHz, 512kB L2 cache, 2GB 1066MT/s DDR3L single channel ECC memory and 4GB eMMC MLC SSD onboard.
conga-QA3E/E3845-4G eMMC8	018105	Qseven module with Intel® Atom™ E3845 quad core processor with 1.91GHz, 2MB L2 cache, 4GB 1333MT/s DDR3L single channel ECC memory and 8GB eMMC MLC SSD onboard.
conga-QA3/HSP-T	015190	Standard heatspreader for Qseven module conga-QA3. Standoff with 2.5mm threat
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-Q3. 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-Qseven/SBM3	025485	Mobility Starter Kit
conga-MCB/Qseven Cable Kit	14000041	Complete cable kit for Qseven mini carrier board
Qseven MXM connector Foxconn	400017	Socket for Qseven Carrier Boards. 10pcs package. Foxconn standard type, SMT, lead free, 230 positions, 0.50mm pitch, 7.8mm height.
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

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