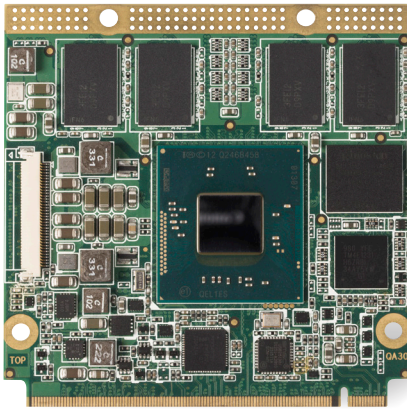


# HIGH PERFORMANCE

# conga-QA3



- 3<sup>rd</sup> Gen. Intel® Atom™ / Celeron® processors
- High resolution Intel® Gen. 7 graphics
- Temperature range up to -40°C .. +85°



Formfactor	Qseven Form Factor Rev. 2.0 compliant   70x70 mm			
CPU	Intel® Atom™ E3845	1.91 GHz QuadCore	L2 cache 2MB	10W TDP
	Intel® Atom™ E3827	1.75 GHz Dual Core	L2 cache 1MB	8W TDP
	Intel® Atom™ E3826	1.46 GHz Dual Core	L2 cache 1MB	7W TDP
	Intel® Atom™ E3825	1.33 GHz Dual Core	L2 cache 1MB	6W TDP
	Intel® Atom™ E3815	1.46 GHz Single Core	L2 cache 512kB	5W TDP
	Intel® Atom™ E3805	1.33 GHz Dual Core	L2 cache 1MB	3W TDP
	Intel® Celeron J1900	2.0 GHz Quad Core	L2 cache 2MB	10W TDP
	Intel® Celeron N2930	1.83 GHz Quad Core	L2 cache 2MB	7.5W TDP
	Intel® Celeron N2807	1.58 GHz Dual Core	L2 cache 1MB	4.5W TDP
DRAM	Dual Channel   up to 8GB onboard 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   I <sup>2</sup> C 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			
Digital Display Interface (DDI)	DisplayPort++ up to 2560x1600			
Features	MIPI-CSI			
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			
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	
	Industrial :	Operating: -40 to +85°C	Storage: -45 to +85°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-QA3 | Block diagram

