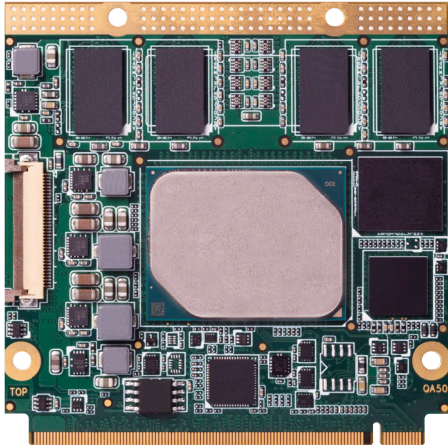


# HIGHEST QSEVEN PERFORMANCE

## conga-QA5



- Intel® Atom™ Quad Core processor on Qseven
- Intel 9<sup>th</sup> generation (Gen 9) LP graphics
- Up to 4k resolution (4096x2160@60Hz)
- 4K Codec Decode & Encode for HEVC, H.264, VP8
- Fast I/Os: SATA3, USB 3.0 and PCIe 2.0



Formfactor	Qseven Form Factor Rev. 2.0 compliant   70x70 mm					
CPU	Intel® Atom™ x7-E3950	2.00 GHz (Burst)   1.6 GHz Clock	Quad Core	L2 cache 2MB	12W TDP	
	Intel® Atom™ x5-E3940	1.80 GHz (Burst)   1.6 GHz Clock	Quad Core	L2 cache 2MB	9W TDP	
	Intel® Atom™ x5-E3930	1.80 GHz (Burst)   1.3 GHz Clock	Dual Core	L2 cache 2MB	6.5W TDP	
	Intel® Pentium® N4200	2.50 GHz (Burst)   1.1 GHz Clock	Quad Core	L2 cache 2MB	6W TDP	
	Intel® Celeron® N3350	2.40 GHz (Burst)   1.1 GHz Clock	Dual Core	L2 cache 2MB	6W TDP	
	Intel® Celeron® J3455	2.30 GHz (Burst)   1.5 GHz Clock	Quad Core	L2 cache 2MB	10W TDP	
DRAM	Dual Channel   up to 8GB onboard DDR3L with 1867 MT/s					
Chipset	Integrated in SoC					
Ethernet	Intel® I210 (Industrial) / I211 (Commercial) Gigabit Ethernet Controller					
I/O Interfaces	3x PCIe Gen2   1x USB 3.0/2.0   5x USB 2.0   2x SATA3   SDv3   LPC Bus   SMBus   I2C Bus   UART					
Mass Storage	eMMC 5.0 onboard flash up to 64 GByte					
Sound	Intel® High Definition Audio (Intel® HD Audio)					
Graphics	Intel® HD Graphics 500 with support for 4k Ultra HD displays   DirectX 12   OpenGL 4.4   OpenCL 2.0   OpenGL ES 3.0   HDCP 1.4 (wired), HDCP 2.0 (wireless)   Video decode hardware acceleration including support for 4kp60 HEVC (H.265), H.264, MVC, VP8, VP9, VC-1, WMV9, JPEG/MJPEG   Video encode hardware acceleration including support for 4kp30 HEVC (H.265), H.264, MVC, VP8, JPEG/MJPEG.					
LVDS	18/24-bit Single/Dual Channel LVDS Interface, resolutions up to 1920X1200@60Hz   VESA standard or JEIDA data mapping Automatic Panel Detection via EDID/EPI   shared with eDP 1.3 supporting up to 3840x2160@60 Hz (option)					
Digital Display Interface (DDI)	DP++ up to 4096x2160@60Hz					
MIPI-CSI	1x MIPI-CSI x4 and 1x MIPI-CSI x2					
congatec Board controller	Multistage 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   LCD Control Display Auto Detection   Backlight Control   Flash Update					
Power Management	ACPI 5.0 compliant   Smart Battery Management					
Operating Systems	Microsoft® Windows 10 IoT Enterprise   Microsoft® Windows 10 IoT Core   Microsoft® Windows 10   Linux   Yocto					
Power Consumption	Typ. application 6W...12W					
Temperature	Commercial:	Operating: 0 to +60°C	Storage: -20 to +70°C			
	Industrial:	Operating: -40 to +85°C	Storage: -40 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-QA5 | Block diagram

