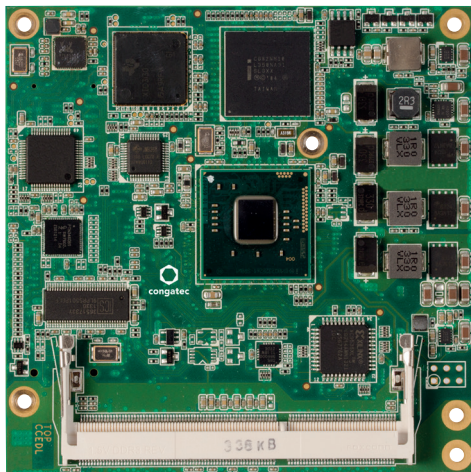


# HIGH PERFORMANCE

# conga-CCA

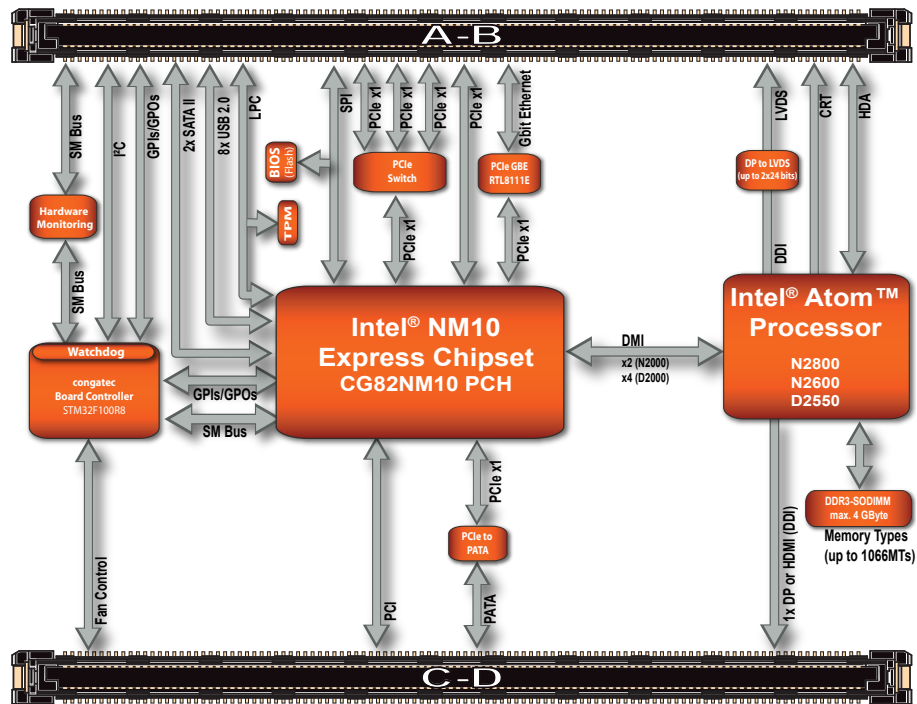


- Intel® Atom™ Dual Core Generation on 32nm
- Only 3.5 Watt TDP on Intel® Atom™ Processor N2600
- HD video performance 2D/3D
- Up to 4 GB DDR3 memory



Formfactor	Formfactor COM Express™ Compact   (95 x 95 mm)   Type 2 Connector Layout					
CPU	Intel® Atom™ D2550	2 cores	4 threads	1.86GHz	1MB cache	TDP 10 W
	Intel® Atom™ N2800	2 cores	4 threads	1.86GHz	1MB cache	TDP 6.5 W
	Intel® Atom™ N2600	2 cores	4 threads	1.6GHz	1MB cache	TDP 3.5 W
DRAM	1 Socket SO-DIMM DDR3 up to 1066MT/s and 4 GByte					
Chipset	Intel® NM10 Express Chipset NM10 PCH   TDP 2.1W					
Ethernet	GBE Realtek 8111E					
I/O Interfaces	up to 4x PCIe   2x Serial ATA II with 3 Gb/s   8x USB 2.0   PCI bus   LPC bus   I²C bus (fast mode, 400 kHz, multi-master)					
Sound	Digital High Definition Audio Interface with support for multiple audio codecs					
Graphics	Integrated Graphics   supporting DirectX 9   Pixel Shader v3.0 and OGL 3.0   Two independent display pipes   Support full MPEG2 (VLD/iDCT/MC)   WMV   Fast video Composing   HW decode/acceleration for MPEG4 (AVC/H.264) & VC-1; 720p60   1080i60   1080p@24 up to 20 Mps   Video Image enhancements					
LVDS	1x24 Bit   2x24 Bit LVDS   1x 18 Bit   2x18 Bit LVDS max. Resolution up to 1920x1200   Automatic Panel Detection via EDID/EPI					
Digital Display Interface	1x DisplayPort 1.1 / TMDS (DVI, HDMI 1.3a)					
CRT Interface	350 MHz RAMDAC   resolutions up to 1920x1200					
congatec Board Controller	Multi Stage Watchdog   non-volatile User Data Storage   Manufacturing and Board Information   Board Statistics   BIOS Setup Data Backup I²C bus (fast mode, 400 kHz, multi-master)   Power Loss Control					
Embedded BIOS Features	AMI Aptio® UEFI 2.x firmware   4 MByte serial SPI firmware flash					
Security	Trusted Platform Module (TPM) optional   Hash and RSA algorithms   key lengths up to 2,048 bits   real random number generator					
Power Management	ACPI 3.0 with battery support					
Operating Systems	Microsoft® Windows7   Microsoft® Windows XP   Microsoft® Windows® Embedded Compact7   Microsoft® Windows® embedded Standard   Linux					
Power Consumption	Typ. application: tbd.   see manual for full details   CMOS Battery Backup					
Temperature	Operating: 0 .. +60°C   Storage: -20 .. +80°C					
Humidity	Operating: 10 - 90% r. H. non cond.   Storage: 5 - 95% r. H. non cond.					
Size	95 x 95 mm (3.74" x 3.74")					

# conga-CCA | Block diagram



# conga-CCA | Order Information

Article	PN	Description
conga-CCA/N2600	047101	Intel® Atom™ N2600 dual core processor with 1.6GHz   1MB L2 cache and 800MT/s DDR3 memory interface
conga-CCA/N2800	047102	Intel® Atom™ N2800 dual core processor with 1.86GHz   1MB L2 cache and 1066MT/s DDR3 memory interface
conga-CCA/D2550	047103	Intel® Atom™ D2550 dual core processor with 1.86GHz   1MB L2 cache and 1066MT/s DDR3 memory interface
conga-TCA/HSP-T	047032	Standard heatspreader for COM Express modules conga-TCA and CCA. All standoffs are M2.5 thread
conga-TCA/HSP-B	047033	Standard heatspreader for COM Express modules conga-TCA and CCA. All standoffs are 2.7mm bore hole
conga-TCA/CSP-T-LF	047030	Standard passive cooling solution for COM Express modules conga-TCA and CCA with 3mm fins. All standoffs are M2.5mm thread
conga-TCA/CSP-B-LF	047031	Standard passive cooling solution for COM Express modules conga-TCA and CCA with 3mm fins. All standoffs are with 2.7mm bore hole
conga-TCA/CSP-T-HF	047034	Standard passive cooling solution for COM Express module conga-TCA and CCA with 10mm fins. All standoffs are M2.5mm thread
conga-TCA/CSP-B-HF	047035	Standard passive cooling solution for COM Express module conga-TCA and CCA with 10mm fins. All standoffs are 2.7mm bore hole
DDR3-SODIMM-1066 (1GB)	068750	DDR3 SODIMM memory module with 1066MT/s and 1GB RAM
DDR3-SODIMM-1066 (2GB)	068760	DDR3 SODIMM memory module with 1066MT/s and 2GB RAM
DDR3-SODIMM-1066 (4GB)	068765	DDR3 SODIMM memory module with 1066MT/s and 4GB RAM

Accessories		
conga-CEVAL	065749	Evaluation carrier board for COM-Express-modules
conga-Cdebug	047854	COM-Express debugging platform   Including cable for COM   PS/2 and VGA.
conga-MCB/COM Express	020715	Mini Carrier Board for COM Express with smart battery manager interface for mobile applications.
conga-MCB/COM Express Cable Kit	14000040	Complete cable kit for the COM Express mini carrier board
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM
conga-HDMI/Display Port adapter	500014	The conga-HDMI/DisplayPort adapter is used fo convert the chipset graphic ports Port-B, Port-C and Port-D to the HDMI or DisplayPort Interface
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set.

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