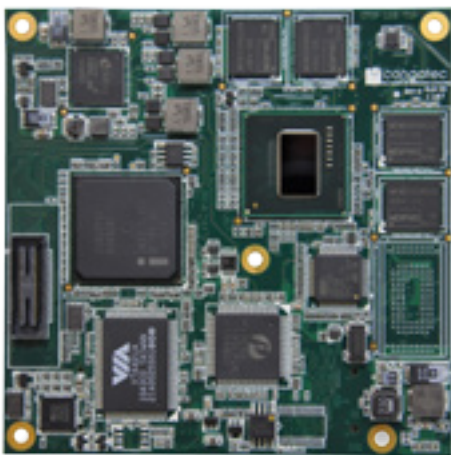


conga-CA6

Industrial Temperature

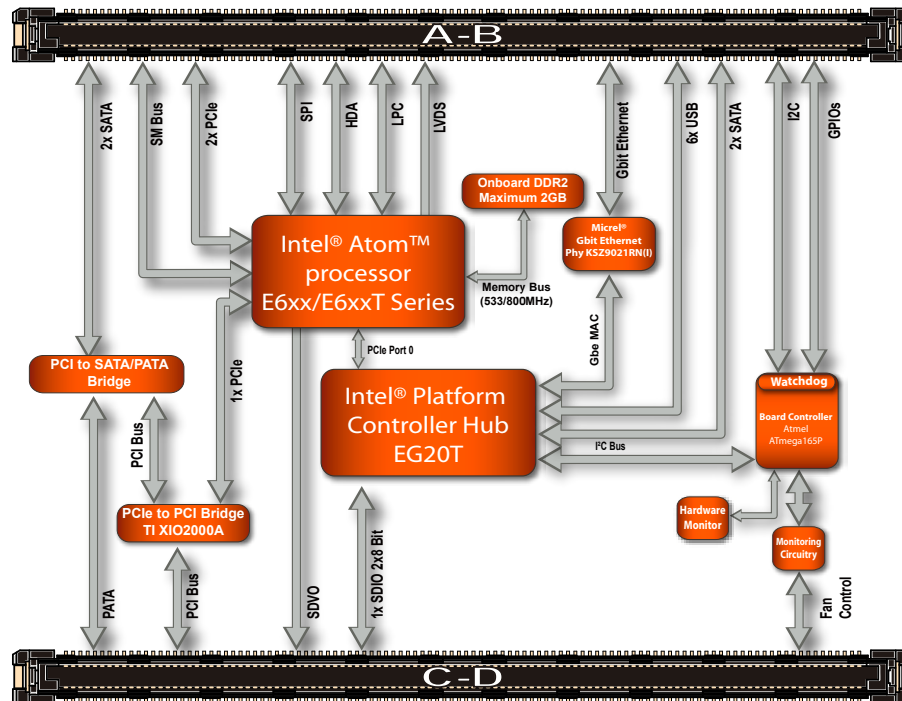


- Extended Temperature Range -40° .. +85°C
- Intel® 3D Graphics

COM  **Express®**

Formfactor	COM Express™ Compact (95 x 95 mm) Type II Connector Layout				
CPU	Intel® Atom™ processor E600 series with 1.6 Ghz 1.3 GHz 1.0 GHz and 600 MHz				
	Intel® Atom™ E680T / E680	1.6 GHz	45 nm process	512kb cache	TDP 3.9 W
	Intel® Atom™ E640T / E640	1.0 GHz	45 nm process	512kb cache	TDP 3.6 W
	Intel® Atom™ E620T / E620	600 MHz	45 nm process	512kb cache	TDP 2.7 W
DRAM	Up to 2 GByte onboard DDR2 memory with 667/800 MT/s				
Chipset	Intel® Platform Controller Hub EG20T				
Ethernet	Micrel® Gbit Ethernet Phy KSZ9021RN				
I/O Interfaces	2x PCI Express™ x1 Lanes 4x Serial ATA® (AHCI only) 1x SDIO 6x USB 2.0 PCI Bus (Rev. 2.3 compliant , 33 MHz) 1x EIDE (optional)				
Mass Storage	Onboard SATA Solid State Drive up to 32 GByte (optional)				
Sound	High Definition Audio Interface				
Graphics	Intel® Graphics Core with 2D and 3D hardware Accelerator and dual independent display support.				
Video Decode Acceleration	Full hardware acceleration for MPEG2 MPEG4 H.264 WMV9 and VC1				
Motion Video Support	Single channel 80MHz LVDS transmitter support for flat panels with 1x18 and 1x24 bit data mapping up to a resolution of 1280x768@60Hz.				
	Single channel 160MHz SDVO interface supports resolutions up to 1920x1080@60Hz and 1280x1024@85Hz.				
	Dual independent display support				
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	OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update based on AMI Aptio UEFI				
Power Management	ACPI 3.0 with battery support				
Operating Systems	Microsoft® Windows 7 Microsoft® Windows XP Microsoft® Windows CE 6.0 Microsoft® Windows® Embedded Compact 7 Microsoft® Windows® embedded Standard Linux				
Temperature	Operating: 0 .. +60°C (opt. -40 to +85°C) Storage: -20 .. +80°C (opt. -40 to +85°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-CA6 | Block diagram



conga-CA6 | Order Information

Article	PN	Description
conga-CA6/E640-1G	061201	Intel® Atom™ E640 processor with 1.0GHz 512kB L2 cache and 1GB DDR2 onboard memory. Based on Intel® Platform Controller Hub EG20
conga-CA6/E680-1G	061203	Intel® Atom™ E680 processor with 1.6GHz 512kB L2 cache and 1GB DDR2 onboard memory. Based on Intel® Platform Controller Hub EG20
conga-CA6/E640T-1G	061211	Intel® Atom™ E640T processor with 1.0GHz 512kB L2 cache and 1GB DDR2 onboard memory. Based on Intel® Platform Controller Hub EG20T Industrial grade temperature range from -40°C to 85°C
conga-CA6/E680T-1G	061213	Intel® Atom™ E680T processor with 1.6GHz 512kB L2 cache and 1GB DDR2 onboard memory. Based on Intel® Platform Controller Hub EG20T Industrial grade temperature range from -40°C to 85°C
conga-CA6/HSP-B	061220	Standard heatspreader for COM Express Compact module conga-CA6. The four corner standoffs are with 2.7mm bore hole The center standoff is with 2.5mm metric thread
conga-CA6/HSP-T	061221	Standard heatspreader for COM Express Compact module conga-CA6 All standoffs are M2.5mm thread

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 to 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.

Mouser Electronics

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[CA6/E660T-1G](#) [conga-CA6/E680](#) [conga-CA6/E680-2G](#) [conga-CA6/E680T-1G](#) [conga-CA6/HSP-T](#) [conga-CA6/HSP-B](#)