

COM Express[®] Compact Module Industrial Temperature

conga-CA6

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 L2 cache, TDP 3.9 W) Intel® Atom™ E660T / E660, 1.3 GHz (45 nm process, 512kb L2 cache, TDP 3.6W) Intel® Atom™ E640T / E640, 1.0 GHz (45 nm process, 512kb L2 cache, TDP 3.6W) Intel® Atom™ E620T / E620, 600 MHz (45 nm process, 512kb L2 cache, TDP 2.7W)
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, 2x Serial ATA®, 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, I ² C 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® Windows7 (embedded), Windows® XP, Windows® XP embedded Standard, Windows® CE 6.0, Linux 2.6, QNX 6.x
Temperature	Operating: 0 to +60°C (opt. -40 to +85°C) Storage: -20 to +80°C (opt. -40 to +85°C)
Humidity	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.
Size	95 x 95 mm (3.74" x 3.74")