

conga-BS45

Intel® Core Duo up to 2.26

up to 8 GByte DRAM

Intel® Graphics Media Accelerator 4500MHD

COM Express



Small-Footprint Mobile Performance

Formfactor

COM Express™ Basic, (95 x 125 mm), Type II Connector Layout

CPU

Intel® Core™ 2 Duo SU9300, 1.20 GHz (3M cache, 800 MHz FSB, TDP 10W)
 Intel® Core™ 2 Duo SP9300, 2.26 GHz (6M cache, 1066 MHz FSB, TDP 25W)
 Intel® Core™ 2 Duo SL9400, 1.86 GHz (6M cache, 1066 MHz FSB, TDP 17W)
 Intel® Celeron® M ULV 722, 1.20 GHz (1M cache, 800 MHz FSB, TDP 5.5W)
 Intel® Celeron® M ULV 723, 1.20 GHz (1M cache, 800 MHz FSB, TDP 10W)

DRAM

2 Sockets, SO-DIMM DDR3 1067 MHz, up to 8 GByte

Chipset

Graphics & Memory Controller Hub: Intel® GS45 I/O Controller Hub: Intel® 82801IUX (ICH9ME-SFF)

Ethernet

Intel® 82567LM Gigabit Ethernet Phy

I/O Interfaces

5x PCI Express™ lanes, PCI Express Graphics (PEG x16), 3x Serial ATA® (AHCI) supporting RAID 0/1/5/10, 1x EIDE (UDMA-66/100) optional, 2x ExpressCard® (uses 2x USB & 2x PCI Express), 8x USB 2.0 (EHCI), PCI bus 33 MHz Rev. 2.3, LPC bus, I²C bus (fast mode, 400 kHz, multi-master), Power Loss Control, temperature controlled Power-Up

Sound

Digital High Definition Audio Interface with support for multiple audio codecs

Graphics

Mobile Intel® Graphics Media Accelerator 4500MHD, graphics core speeds up to 533 MHz, improved graphics and 3D rendering performance, Intel® Dynamic Video Memory Technology (Intel® DVM 5.0), OpenGL 2.0 and DirectX10 support, Two independent pipelines for full dual view support, High performance hardware MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support Blu-ray support @ 40 Mb/s, hardware motion compensation

LVDS

Dual channel 112 MHz LVDS transmitter, Supports flat panels with 1x18, 2x18, 1x24, 2x24 bit interface, VESA mappings, resolutions from 640x480 up to 1920x1200, Automatic Panel Detection via EDID/EPI

DisplayPort (DP)

Supports two DisplayPorts multiplexed with the PCI Express Graphics interface 1.62 Gb/s and 2.7 Gb/s, 1/2/4 data lanes, 8B10B-coding, Hot-Plug detect support, HDCP support

HDMI

Single TMDS Link, only support for RGB
 Video support for CEA modes 480i/p, 576i/p, 720p, 1080i/p and PC modes via dot clock, HDCP and HDMI repeater support

CRT Interface

300 MHz RAMDAC, resolutions up to QXGA

AUX Output

Supports two SDVO Ports multiplexed with the PCI Express Graphics interface

TV Out

Onboard TV encoder, supports HDTV (420p, 720p and 1080i), supports component and S-video

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

OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, Based on AMIBIOS8®

Security

Integrated TPM 1.2/TPA security functions, for Hash, RSA, keys and random numbers (optional)

Power Management

ACPI 3.0 with battery support

Operating Systems

Microsoft® Windows7, Microsoft® Windows XP, Microsoft® Windows® embedded Standard, Linux 2.6, QNX 6.x

Power Consumption

Typ. application: TBD W @ 12V, 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 125 mm² (3.74" x 4.92")



congatec

the rhythm of embedded computing

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