

High Performance

Formfactor	ETX® Spec 2.7. without ISA Support, XTX™ Extensions
CPU	Intel® Core™ 2 Duo L7400 LV, 1.5 GHz, (4M cache, 667 MHz FSB, 65nm) Intel® Core™ 2 Duo U7500 ULV, 1.06 GHz, (2M cache, 533 MHz FSB, 65nm) Intel® Core™ Duo L2400 LV, 1.66 GHz, (2M cache, 667 MHz FSB, 65nm) Intel® Celeron® M440, 1.86 GHz, (1M cache, 533 MHz FSB, 65nm) Intel® Celeron® M423 ULV, 1.06 GHz, (1M cache, 533 MHz FSB, 65nm)
DRAM	SO-DIMM DDR2 667/PC 5300 up to 2 GByte
Chipset	Graphics & Memory Controller Hub: Intel® 945GME I/O Controller Hub: Intel® 82801GBM (ICH7-M) I/O Controller: Winbond 83627HG Ethernet PHY: Intel® 82562
I/O Interfaces	4x PCI Express™ Lanes, 2x Serial ATA® (AHCI), 1x EIDE (UDMA-66/100), 2x Express Card® (uses 2x USB & 2x PCI Express), 6x USB 2.0 (EHCI), PCI Bus Rev. 2.3, no ISA Bus, LPC Bus, I²C (Fast Mode, 400 kHz, Multi Master), Floppy (Shared with LPT), LPT (EPP/ECP, Shared with Floppy), 2x COM Ports TTL Level, 1x IrDA Port, PS/2 Keyboard, Mouse
Ethernet	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
Sound	AC'97 Rev.2.2 Compatible, Line In, Line Out, Mic In, Digital High Definition Audio Interface with support for multiple audio codecs
Graphic Interface	Enhanced 256 Bit 3D Video Controller, Intel® Graphics Media Accelerator 950, Up to 10.6 GB/sec memory bandwidth, 256-bit graphics core, max. 224 MByte 64 Bit Video RAM (DVM 3.0), Dynamic Display Modes for flat-panel, wide-screen and Digital TV support
Full Dual View	With two independent Pipelines
Motion Video Support	High Definition Hardware Motion Compensation to support high definition hi-bitrate MPEG2 media playback, Up and Down Scaling of Video Content, High Definition Content Decode, HDTV (1080i/p) Support
Flat panel Interface	Dual 112 MHz LVDS Transmitter, Supports all 1x18, 2x18, 1x24, 2x24 Bit, VESA- and openLDI-Mappings, Resolutions 640x480 up to 1920x1200, Automatic Panel Detection via EPI, (Embedded Panel Interface, based on VESA EDID™ 1.3)
CRT Interface	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)
AUX Output	2x SDVO
TV Out	On ETX® X3 connector
congatec Board Controller	Multi Stage Watchdog, Non-volatile User Data Storage, Manufacturing and Board Information, Board Statistics, BIOS Setup Data Backup, I²C (Fast Mode, 400 kHz, Multi Master), Power Loss Control
Embedded BIOS Features	OEM Logo, OEM CMOS Defaults, LCD Control, (Auto Detection, Backlight Control), Serial Port Console Redirection, for Remote Setup and Installation, Flash Update, Based on AMIBIOS®
Security (optional)	TPM 1.2/TPA Security Functions, for Hash, RSA, Keys and Random Numbers
Power Management	ACPI 2.0 with Battery support
Operating Systems	Microsoft® Windows® Vista™, Windows® XP, Windows® 2000, Windows® XP embedded, Windows® CE 5.0/6.0, LINUX, QNX
Power Consumption	Typ. application: 10.5 W @ 5V, (1.66 GHz Core Duo), 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 114 mm² (3.7" x 4.5")

conga-X945

Featuring the latest Intel® Core™
2 Duo LV Processors up to 1.5 GHz

Provides up to 2 GByte top of the
line DRAM performance

ACPI Battery Support,
Flat Panel detection ...





congatec

the rhythm of embedded computing

Headquarter:

congatec AG

Auwiesenstraße 5
94469 Deggendorf,
Germany

Phone +49 (991) 2700-0

Fax +49 (991) 2700-111

info@congatec.com

www.congatec.de

Subsidiaries:

congatec AG Asia Pacific

11F-2, 341, Sec 4,
Zhong Xiao E. Rd.
106 Taipei City, Taiwan

Phone +886 2 2775 4645

Fax +886 2 2775 3263

sales-asia@congatec.com

www.congatec.tw

congatec, Inc.

2187 Newcastle Ave, Suite 201
Cardiff by the Sea,
CA 92007 USA

Phone +1 760-635-2600

Fax +1 760-635-2601

sales-us@congatec.com

www.congatec.us

congatec s.r.o.

Brojova 16
PS 326 00 Plzeň
Czech Republic

www.congatec.com

© 2009 congatec AG. All rights reserved.

conga, congatec and XTX™ are registered trademarks of congatec AG. Intel, Pentium and Intel Atom are trademarks of Intel Corporation in the U.S. and other countries. COM Express is a registered trademark of PICMG. Express Card is a registered trademark of the Personal Computer Memory Card International Association (PCMCIA). PCI express is a registered trademark of the Peripheral Component Interconnect Special Interest Group (PCISIG). CompactFlash is a registered trademark of the Compact Flash Association. Winbond is a registered trademark of the Winbond Electronics corp. AVR is a registered trademark of the Atmel corporation. ETX is a registered trademark of Kontron Embedded Modules GmbH. AMICORE8 is a registered trademark of American Megatrends inc. Microsoft®, Windows®, Windows NT®, Windows CE and Windows XP® are registered trademarks of Microsoft corporation. VxWorks is a registered trademark of WindRiver. All product names and logos are property of the respective manufacturers.

All data is for information purposes only. Although all the information contained within this document is carefully checked no guarantee of correctness is implied or expressed.