

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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The Wayback Machine - https://web.archive.org/web/20070923025807/http://www.congatec.com:80/x945.html

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Products

COM Express

XTX

- conga-X965
- **conga-X945**
- conga-X915
- conga-X855
- conga-X852
- conga-XLX

ETX

Accessories

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Embedded Computer Module



Description
Datasheets
Documentation
Application Notes
Drivers
Order Code

Latest News

A do-it-yourself guide to building an x86 BIOS-based Computer-On-Module design

Not all BIOS software offerings are not created equal. Here's how to select the right one for your a...

User's Guide conga-X945

Intel® Core™ 2 Duo, Intel® Core™ Duo and Celeron M processors with an Intel® 945 chipset

Datasheet Engineering Tools

Intel® ICA Member



conga-X945

Dual Core XTX™ embedded CPU module with 4 PCI Express lanes and SATA

XTX™ Module with Intel® Core™ Duo processor

High End

The conga-X945 features the latest Intel® Core™ 2 Duo processors up to 2x 1.5 GHz with 4 MByte shared L2 cache. It offers all XTX features including 4x X1 PCI Express lanes.

ETX® compatible

The conga-X945 offers the highest computing performace available on ETX® module size. It's completely ETX® compatible but offers PCI Express, SATA and much more state of the art features by using the ETX® ISA pins.

Lead-free Design (RoHS)

As of July 2006, all electronic products are required to be environmentally friendly. All congatec AG products fulfill this requirements.

Mass Storage

Two serial ATA® drives can be connected as fast mass storage devices. In order to support economical and robust CompactFlash cards, parallel ATA is also available.

Connectivity

Thanks to the four PCI Express, six USB 2.0, 2x SATA®, two COM ports, PCI, I²C, LPT,... the conga-X945 offers more connectivity than most other computer modules.

Graphics Efficiency

The integrated Intel® Graphics Media Accelerator 950 features the latest 3D, 2D and video capabilities. It supports up to 224 MByte frame buffer using Dynamic Video Memory Technology (DVMT). With EPI support the conga-X945 automatically recognizes almost every available flat panel display and sets all parameters accordingly. Additional displays can be connected using the analog VGA interface or the DVO port. TV-Out is also supported.

Sound

conga-X945 can utilize several high definition audio (HDA) codecs. This allows for the easy implementation of telephone and audio applications that require the highest sound quality and numerous channels.

Security

The conga-X945 can be equipped optionally with a "Trusted Platform Module" (TPM). This TPM includes coprocessors to calculate efficient hash- and RSA-algorithms with key lengths up to 2,048 bits as well as a real random number generator. Security sensitive applications like gaming and ecommerce will benefit also with improved authentification, integrity and confidence levels.

Software and Driver Support

congatec offers advanced Board-Support-Packages for the conga-X945, which include both the latest tested drivers from silicon vendors and the congatec specific drivers for accessing all of our additional embedded BIOS features. This will help our customers reduce their time-to-market.

Embedded BIOS Features

The conga-X945 is equipped with the congatec Embedded BIOS and supports the following features:

- ACPI Power Management
- ACPI Battery Support
- Supports Customer Specific CMOS Defaults
- Multistage Watchdog
- User Data Storage
- Manufacturing Data and Board Information
- OEM Splash Screen
- Flat Panel Auto Detection
- BIOS Setup Data Backup
- Fast Mode I²C Bus

		• Real Headless Operation • Console Redirection and BIOS Update(flashing BIOS) via Serial Port **Design-In Support** congatec support begins with your product idea and philosophy and continues throughout the series phase all the way up to the next product generation. This commitment to support helps our customers keep system development costs low and speeds up time-to-market. **System Integration** An important factor for each system integration is the thermal design. The heatspreader is a thermal coupling interface that makes fanless and rugged solutions possible.
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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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