



ETX® embedded CPU module with Intel® Pentium® M / Celeron® M and ISA support

Performance

The conga-E855 features Intel® Pentium® M processors up to 1.6 GHz. High memory bandwidth is provided by supporting up to 1 GByte memory (DDR333).

Lead-free Design (RoHS)

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

Low Power Consumption

The complete conga-E855 design is geared around low power consumption. The Ultra Low Voltage Intel® Celeron® M 600 MHz and Intel® Celeron® M 1 GHz variants are very well suited for mobile solutions. The congatec Embedded BIOS offers ACPI 2.0 support. Enhanced Intel® SpeedStep® Technology is supported for Pentium® M versions.

All ETX® I/O's

The conga-E855 features all ETX® interfaces including the ISA bus. Although the Intel ICH4 has no direct ISA support, the ISA Bus is generated by an additional PCI to ISA bridge device.

Graphics Efficiency

The integrated Intel® Extreme Graphics controller with two independent pipelines features latest 3D, 2D video capabilities. Supports up to 64 MByte frame buffer using Dynamic Video Memory Technology (DVMT). The congatec embedded BIOS automatically recognizes almost every available flat panel display and sets all parameters accordingly. Displays can be connected using the LVDS interface, analog VGA interface or the DVO port.

Connectivity

Thanks to the 4x USB 2.0, 2x COM, LPT, FDC, PCI, ISA, I²C, LAN, 2x EIDE ... the conga-E855 offers all the connectivity you expect from an ETX embedded computer module.

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.

Software and Driver Support

congatec offers advanced Board-Support-Packages for the conga-E855, 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-E855 is equipped with the congatec Embedded BIOS and supports the following features:

- ACPI Power Management
- Multistage Watchdog
- User Data Storage
- Manufacturing Data and Board Information
- OEM Splash Screen
- Flat Panel Auto Detection
- BIOS Setup Data Backup
- Customer Specific CMOS Defaults
- Fast Mode I²C Bus
- Real Headless Operation
- Console Redirection and BIOS Update (flashing BIOS) via Serial Port

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.