EmbATX 401

Value Line

Intel® Pentium® 4



Fast

Cost effective

Connective

EmbATX size

- Intel® Pentium® 4 processor(400 or 533 MHz PSB)

  Intel® Pentium® 4-m processor support
- Low Profile PCI
- MiniPCI socket
- USB 2.0 (optional Powered USB)

kontron
... always a Jump ahead!

Product Overview

Optional solution for performance and graphics driven application offering improved connectivity.

EmbeddedATX (EmbATX) is a new embedded motherboard form factor developed to satisfy the needs of applications requiring a motherboard with a constrained height. Main benefits are the current processor technologies combined with ATX family backwards-compatible rear I/O panel and Low-profile PCI expansion via PCI riser. For seamless integration the Embedded ATX formfactor offers the same dimensions and mounting hole locations as microATX

Connectors Rear side

- Audio: Line out, MIC
- Dual Network (RJ45)
- Printer, Quad COM
- Dual USB 2.0
- optional Powered USB
- VGA
- Keyboard/Mouse: separate PS/2

Connectors internal

- PCI-Slot and MiniPCI (IIIA)
- Dual 40 Pin IDE (ATA 100)
- CD-ROM audio, Line out, Line in, Mic
- Quad USB 2.0
- FDD interface
- Additional Dual COM
- LCD (LVDS)
- ATX-12V Power-Supply
- Aux Connectors: Power- and Reset- button, Power- and HDD-LED, IRDA header, 2x Chassis and CPU fan

CPU-CORE

- Intel® Pentium® 4 processor / Celeron supports 400 and 533 PSB
- Intel® Pentium® Pentium 4-m (mobile)
- GMCH 82845GV and ICH4 chipset

Memory

- Two 184-pin latching DIMM sockets
- Up to 2 GB DDR-SDRAM
- 128 KB NVRAM (optional)

Bus Interface

- PCI Bus (33 MHz/32bit)

I/O Ports

- USB Ports:	Six USB 2.0 ports (opt. Dual Powered)
- Serial Ports:	Six RS-232 (16C550) with 16 byte FIFO
- Parallel Port:	IEEE 1284 support
- Floppy Disk:	Up to two drives (360 KB to 2.88 MB)
- EIDE:	Dual EIDE 40pin 2,54mm
- Ethernet:	Dual 10/100 Base-T (dual 82551ER) optional 10/100/1000 base-T (82540)
- Audio:	AC97 codec
- Keyboard/Mouse:	separate PS/2

Video

- Integrated AGP VGA in GMCH 82845GV
- Supports CRT with resolution up to 2048x1536, non-interlaced
- LVDS 1600x1200 18bit

BIOS

- Phoenix BIOS
- USB Legacy and boot support

OS Compatibility

- Windows® 2000, XP; Linux and others on reguest

Enviromental

- Temperature: 0 ° to 55 °C / 32 ° to 131 °F (operating)

Designed to meet or exceed

- Safety: UL 1950; CSA C22.2 No 950; EN 60950; IEC950
- EMI/EMC: FCC 47 CFR Part 15/CISPR22;CE Mark to EN55022/EN50082

Mechanical

- 244 mm x 244 mm (9.6" x 9.6")

Product	Description
embATX401/2400	Embedded ATX Boards with 2.4 GHz Pentium 4
embATX401/C2200	Embedded ATX Boards with 2.2 GHz Celeron

© Kontron 2002 ™ All trademarks are recognised, Publication Number 23717

Corporate Offices

US/ Canada
6260 Sequence Drive
San Diego, CA 92121-4371
Tel.: +1 (0) 88 82 94 45 58
Fax: +1 (0) 88 86 77 08 98
sales@kontron.com

Europe, Middle East and Africa
Oskar-von-Miller-Straße 1
85386 Eching/Munich Germany
Tel.: +49 (0) 8165 77 0
Fax: +49 (0) 8165 77 219
sales@kontron.com

Asia Pacific
6F, No. 9, Lane 235, Pao-Chiao Rd.,
Hsin-Tien, Taipei Hsien, 231 Taiwan
Tel.: +88 62 29 10 35 32
Fax: +88 62 29 10 35 82
sales@tw.kontron.com

Kontron Modular Computers GmbH
Sudetenstr. 7
D-87600 Kaufbeuren
Tel.: +49 (0) 8341 803 0
Fax: +49 (0) 8341 803 499
www.pep.com

Our worldwide sales representatives and partners can be found on our websites.

The latest version of this document may be found on our web site. Specifications subject to change without notice. Kontron Embedded Computers and the Kontron logo are registered trademarks of Kontron Embedded Computers. All other trademarks are the property of their respective owners. Copyright 2002 by Kontron Embedded Computers. All rights reserved.