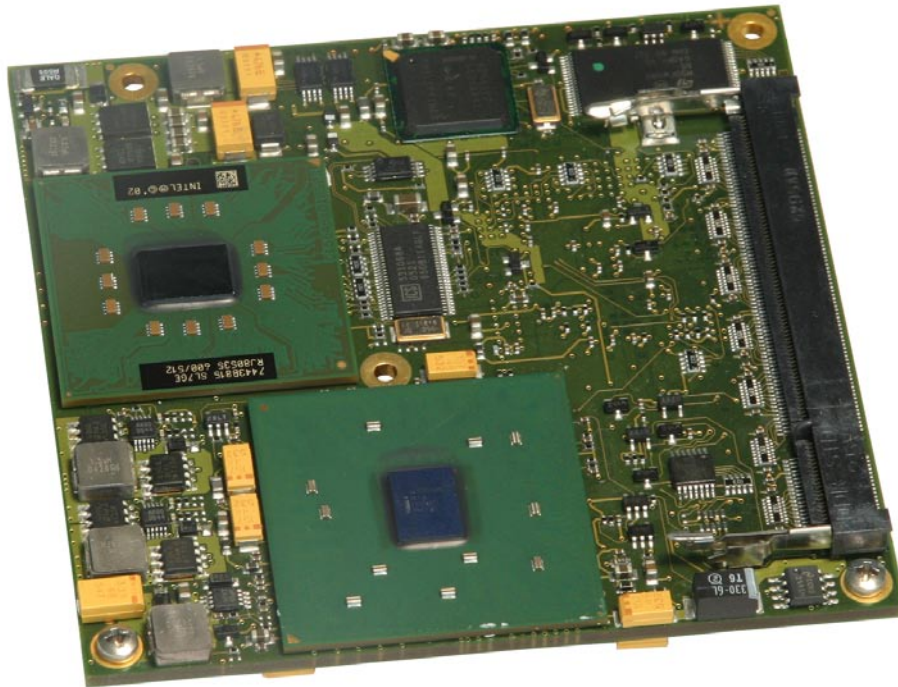


➤ **microETXexpress-PM**

COM Express™ compliant
with Intel® Pentium® M



powered by
Intel® Pentium® M



- With Intel® Pentium® M and Intel® Celeron® M processor
- Intel® 82855GME / Intel® 82852GME 400MHz and ICH-4
- 2x SerialATA ports - for performing drives
- 6x USB 2.0 and DDR-SDRAM up to 1 GByte
- COM Express™ connectors - for proven highest transfer rates

Product Overview

microETXexpress is based on ETXexpress®. ETXexpress® is the Module concept of the new open standard COM Express™ (by PICMG). The new microETXexpress-PM module is based on the Intel® Pentium® M and Intel® Celeron® M processors as well as the Intel® 82855GME/82852GME chipset. The Intel® Pentium® M processors feature the unique Enhanced Speed Step™ technology. Supporting up to 1GByte of DDR-SDRAM technology the memory bandwidth is no longer the performance bottleneck. The integrated Intel® Extreme Graphics 2 video controller offers resolutions up to 2048x1536 pixel with 2D and 3D acceleration. The JILI display interface technology ensures automatic setting of the video controller parameters for the attached LCD

panel. The 6 USB channels support USB 2.0 with full bandwidth for the coming generations of I/O devices. The microETXexpress-PM is fully featured with PCI 2.1 bus, audio, ethernet and IDE interfaces. The modules are like components, plugging into an application-specific baseboard. The modules supply the core CPU and memory subsystems together with sound, QXGA, Ethernet and standard PC I/O. They connect to the rest of the embedded system through highdensity, low profile COM Express™ connectors - for highest proven transfer rates, which carry PCI bus signals as well as dedicated interfaces. microETXexpress and ETXexpress® modules are scaleable and interchangeable, and they make possible the rapid development of semi-custom solutions for embedded applications.

Technical Information

Processor	Intel® Pentium® M Intel® Celeron® M Processor
Chipset	Intel® 82855GME (Intel® 82852 GME), 400MHz FSB, integrated graphics
Memory	up to 1 GByte 1x DDR-SO-DIMM, 400/533 MHz
Cache	up to 2MByte 2 nd Level
Hard Disk	2x SATA (RAID 0/1), 1x PATA
PCI	1x PCI
Sound	AC97
Video Controller	Intel® Extreme Graphics2 controller, LVDS Flatpanel and CRT output, Up to 64 MByte UMA Video RAM
LVDS and CRT Resolutions	max CRT QXGA 2048x1536, max LCD UXGA 1600x1200

LCD Panel Support	Single and Dual Channel LVDS 18/24 bit
USB	6x USB 2.0 UHCI ports
Ethernet	10/100Base-T Intel® 82562ET
Other Features	E ² PROM BIOS Setup, RTC, Watchdog, JILI Support
Form Factor	95 x 95 mm (3.75" x 3.75") COM Express™ Type 2
Power Consumption	typ. Idle 10,5 W @ 1.4 GHz, 12 V
Temperature (*)	operation: 0° to 50°C, storage: -30° to 85°C
Humidity	operation: 10% to 90%, storage: 5% to 95% (non condensing)

(*) Ask about extended temperature ranges

Ordering Information

Article	Part.-No.	Description
microETXexpress-PM	36001-0000-10-1	Intel® Celeron® M processor 373 ULV (1.0 GHz), 512KB L2 / 82855GME
microETXexpress-PM	36001-0000-14-2	Intel® Pentium® M processor 738 LV (1.4 GHz), 2MB L2 / 82855GME
microETXexpress-PM	36001-0000-08-3	Intel® Processor 800 MHz OKB L2 / 82855GME
microETXexpress-PM	36001-0000-06-4	Intel® Celeron® M processor ULV 600 MHz 512KB L2 / 82852GME
microETXexpress-PM HSP	36001-0000-99-0	HSP-PM threaded stand off
microETXexpress-PM HSP	36001-0000-99-1	HSP-PM through hole stand off
DDR SDRAM SODIMM 256	97007-2560-00-0	DDR SDRAM SODIMM with 256 GB
DDR SDRAM SODIMM 512	97007-5120-00-0	DDR SDRAM SODIMM with 512 GB
DDR SDRAM SODIMM 1 GB	97007-1024-00-0	DDR SDRAM SODIMM with 1 GB

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