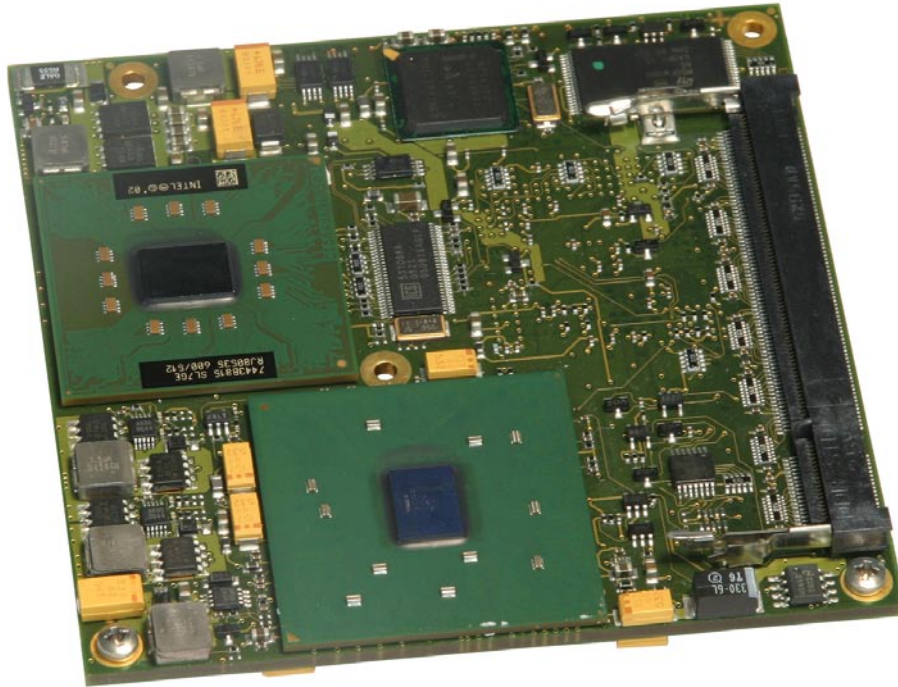


➤ microETXexpress™ -PM

COM Express® compliant with Intel® Pentium® M



powered by
Intel® Pentium® M



- With Intel® Pentium® M and Intel® Celeron® M processor
- 2x SerialATA parts - 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 855GME 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 ETXexpress® 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, 400MHz FSB, integrated graphics (Intel® 852 GM)
DRAM	1 GByte max. DDR-SO-DIMM, PC1600/2100/2700
Cache	up to 2MByte 2 nd Level
Serial ATA	2x SATA I (150 MB/s) RAID Level 0 and Level 1 support
IDE	One enhanced IDE port
Sound	AC97 interface
Video Controller	Intel Extreme Graphics2 controller, LVDS Flatpanel and CRT output, Up to 32 MByte UMA Video RAM

Resolutions CRT and LCD	max CRT QXGA 2048x1536, max LCD UXGA 1600x1200
LCD Panel Support	Dual Channel LVDS 110 MHz
USB	6x USB 2.0 UHCI ports
Ethernet	10/100Base-T Intel® 82562
Other Features	E ² PROM BIOS Setup, RTC, Watchdog, JILI Support
Dimensions	95 x 95 mm (3.75" x 3.75")
Power Consumption	typ. 16,16 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 wider 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 / 855
microETXexpress™-PM	36001-0000-14-2	Intel® Pentium® M processor 738 LV (1.4 GHz), 2MB L2 / 855
microETXexpress™-PM	36001-0000-08-3	Intel® Processor 800 MHz OKB L2 / 855
microETXexpress™-PM	36001-0000-06-4	Intel® Celeron® M processor ULV 600 MHz 512KB L2 / 852
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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