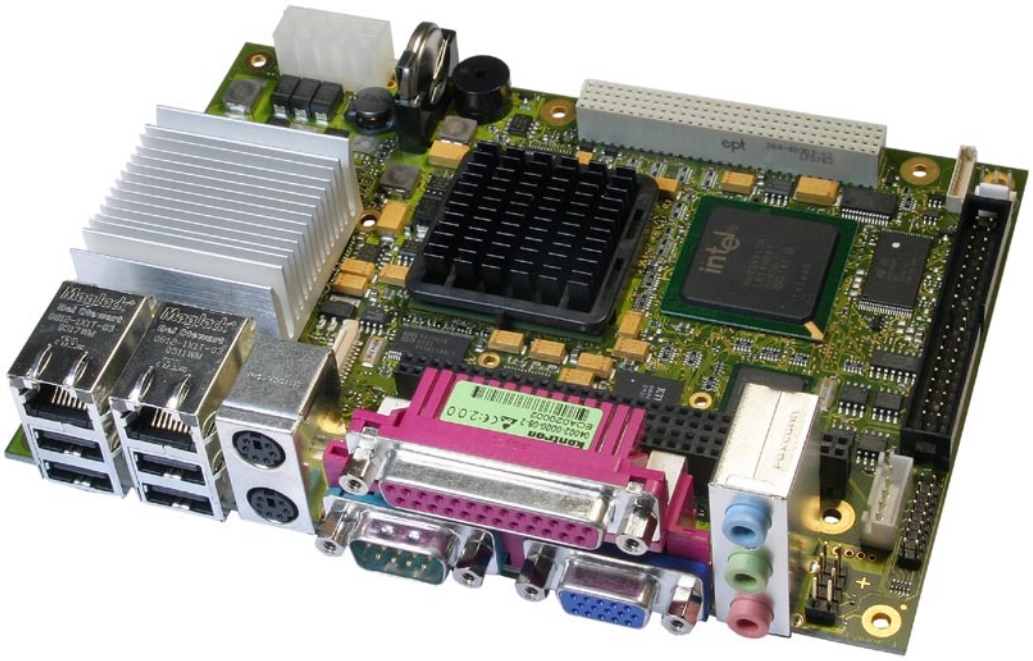
EPIC/PM



- Intel® Pentium® M & Celeron® M
- From 600MHz up to 1.8 GHz - embedded longevity
- PC/104 and PC/104plus expansion
- High performance, Low power consumption @ low cost

Product Overview

Each **EPIC** is a member of the EPIC board family. EPIC modules from Kontron are characterized by the same pinout and interface for PC/104 & PC/104plus, 4xUSB, DUAL LAN, Keyboard/Mouse-socket, Compact-Flash™, CRT, LPT, Sound and COM1. This family feature allows to re-use chassis and maximizes design re-use.

The advantage of EPIC/PM is the combination of latest Pentium® M performance bundled with best proven widest choice PC/104 ISA IO - besides full PC/104 compliant IO expansion capacity with motherboard style frontside feature access. That way the CPU board itself, underneath the added IO, arrives with almost all front plate accessible functionality - avoiding cable handling & cable cost.

This **EPIC/PM** hosts an Intel® Pentium® M or Celeron® M processor with ranges from 600MHz up to 1.8 GHz. A DOUBLE socket DDR-RAM-SODIMM for up to 2 GByte allows the use of standard notebook memory, ATX power supply and 5V single supply by adapter are a well standard feature. These homogeneous features facilitate easy upgrades within the EPIC product family. The high speed DUAL graphic controller is included in the chipset, that performs with up to 2x32 MByte UMA. Connection of displays is simplified when using these units which are complete with a JILI-Interface (JUMPtec® Intelligent LVDS Interface). JILI automatically recognizes which display is connected and independently sets all video parameters.

Technical Information

Processor	Intel® processors from 600MHz to 1.8 GHz
Chipset	Intel® 852GM/855GME, ICH4
On chip Graphics	Intel® Extreme Graphics 2 engine, 2x 32 MByte UMA VRAM
Graphic Interfaces	DVO, CRT and LCD (JILI)
RAM	**Double** DDR-RAM-SODIMM **for up to 2 GByte**
COM	**4x** (1x RS232 DSUB, 3x RS232 with 1x as RS422/485 internal)
GPIO	**16x** (2mm DIN pinning internal)
LAN	**Dual 10/100 BAseT Ethernet**
USB 2.0	**6x** (4x ext. overcurrent protected, 2x int. non-overcurrent protected)
Extensions	**PC/104 (ISA) & PC/104plus (PCI)**
Sound	3.5mm jack-plugs (Line In/ Line Out/ Mic In)
CompactFlash Socket	Type 1
EIDE Harddisk Interface	UDMA-100, 40 pin

Floppy Disk Interface	✓
LPT Printer Interface	✓
Keyboard/Mouse	✓ / ✓
Dimensions	115x165 mm
Power Supply	ATX and 5V by included adaptor
Plug´n Play	compatible to any other EPIC SBC and therefore exchangeable
Reset/ATX feature socket	button is accessory (8pin 2,54 mm)
Temperature (*)	Operation: 0° to 60°C (with appropriate airflow) Storage: -10° to 85°C
Kontron Features	LAN/USB Boot DarkBoot Watchdog HW Monitor Real Time Clock

(*) Ask about wider temperature ranges

Ordering Information

Article	Part.-No.	Description
EPIC/PM	04002-0000-06-1	Intel® Celeron® M processor 600MHz (soldered), 512KB L2 cache, Intel 852GM / ICH4 chipset, fanless, single supply ATX & 5V by adaptor
EPIC/PM	04002-0000-10-2	Intel® ULV Celeron® M processor 373 1GHz (FANLESS), 512KB L2 cache, Intel 855GM / ICH4 chipset, single supply ATX & 5V by adaptor
EPIC/PM	04002-0000-18-2	Intel® Pentium® M processor 745 1.8GHz (fan), 2MB L2 cache, Intel 855GM / ICH4 chipset, single supply ATX & 5V by adaptor

Corporate Offices

Europe, Middle East & Africa
Kontron AG
Oskar-von-Miller-Str. 1
85386 Eching/Munich
Germany
Tel.: +49 (0)8165/ 77 777
Fax: +49 (0)8165/ 77 219
sales@kontron.com

North America
Kontron America Corporate Office
14118 Stowe Drive
Poway, CA 92064-7147
USA
Tel.: +1 888 294 4558
Fax: +1 858 677 0898
sales@us.kontron.com

Asia Pacific
Kontron Asia Inc.
4F, No. 415, Ti-Ding Blvd.
Sec.2, NeiHu District
Taipei Taiwan 114
Tel.: +886-2-2799-2789
Fax: +886-2-2799-7399
sales@kontron.com.tw

Kontron Embedded Modules
Brunnwiesenstr. 16
94469 Deggendorf
Germany

Tel.: +49 (0)991/ 370 24-100
Fax: +49 (0)991/ 370 24-333
sales@kontron.com

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