> 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 mother-board 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 Door LAG / 100 DA or T. Fall or work			
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			

✓ 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
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)
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Kontron Features
LAN/USB Boot
DarkBoot
Watchdog
HW Monitor
Real Time Clock

(*) Ask about wider temperature ranges

Ordering Information

Article	PartNo.	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

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