➤ *cool*MONSTER/PM

➤ All-In-One half size Pentium® M PISA® Slot-CPU

➤ FAST
Intel® Celeron® M and Intel® Pentium® M performance up to 1.8 GHz

➤ COMMUNICATION
4xCOM, LAN, USB 2.0, 2xIDE - PISA® for ISA and PCI IO back planes

➤ MULTIMEDIA
DUAL Screen support, Sound

kontron

➤ Product Overview

The coolMONSTER/PM is an „all in one" Intel® Pentium® M based slot PC with consistent half size slot design, while Intel® ULV Celeron® M is the ultra low Power option. Despite the very compact half size format it's possible to integrate the PISA® (PISA®=PCI+ISA) bus and a full featured set of interfaces. Beside all standard interfaces (four COM ports, one as RS232 or RS485, EPP/ECP parallel port, floppy, EIDE, USB and IRDA port), a SoundBlaster compatible sound chip and a high speed on chip video controller (Intel® Extreme Graphics 2 engine) is available. It can operate CRT monitors and LCD flat panels in parallel even with different screen content.

Two EIDE ports, one with 40-pin connector, the other with 44-pin 2 mm connector, are available to support various mass storage devices. Additionally the coolMONSTER is equipped with an Ethernet 10/100Base-T interface (Twisted Pair). With Kontron You stay...always a Jump ahead!

➤ Technical Information

➤ **Full PISA® Bus compliant Industry Standard**

Processor	
	Intel® Pentium® M
	Intel® (ULV) Celeron® M
	(all Dothan Core)
Chipset	
	Intel® 855GME, ICH4
On chip Graphics	
	Intel® Extreme Graphics 2 engine,
	2x 32 MByte VRAM UMA
Graphic interfaces	
	CRT, LCD (JILI) and DVO
RAM	
	DDR-RAM-DIMM for up to 1 GByte
COM	
	4x RS232 (16 Byte FIFO), one switchable to RS485
USB 2.0	
	3x, (third USB via feature-connector)
10/100 BaseT Ethernet	
	1x (RJ45)
Extensions	
	ISA & PCI IO (Backplane)
Kontron IP Features	
	E²PROM BIOS Setup, LAN Boot, JRC support, I²C Bus, RTC, Watchdog,
	JIDA Support
Sound	
	AC'97 compatible Stereo audio CODEC, Line in, Line out stereo,
	Mic in mono, 3D audio effects, full duplex
EIDE interface	
	2x (1x 40 pin, 1x 44 pin)

Floppy interface	
	yes
Printer interface	
	yes
Keyboard/Mouse	
	yes/PS2
LAN/USB Boot	
	yes
DarkBoot	
	yes
Watchdog	
	yes
HW monitor	
	yes
Real Time clock	
	yes
Dimensions	
	175 x 125 mm (6,9 x 4,9")
Power Supply	
	5V only
Plug'n Play compatible to any to other PISA SBC and therefore exchangeable	
	yes
Temperature (*)	
	Operation: 0° to 60°C
	Storage: -10° to 85°C
Humidity	
	Operation: 10% to 90%
	Storage: 5% to 95%

(*) Ask about wider temperature ranges

➤ Ordering Information

Article	Part.-No.	Description
coolMONSTER/PM	07030-0000-08-1	Intel® processor with 800MHz (soldered), 0KB L2, fanless
coolMONSTER/PM	07030-0000-10-2	Intel® ULV Celeron® M 373 processor with 1 GHz (soldered), 512KB L2, fanless
coolMONSTER/PM	07030-0000-18-2	Intel® Pentium® M 745 processor with 1.8 GHz (soldered), 2MB L2, fan
coolMONSTER/PM	07030-0000-15-3	Intel® Celeron® M processor 370 1.5GHz (socketed), 1MB L2, fan
	common features	Intel 855GME/ICH4 chipset, DDR-RAM-DIMM socket, 4xRS232C, LPT, FDC, IDE, USB 2.0, onchip Video Controller with 2x 32MB VRAM UMA for CRT and LCD, Sound, 10/100 MBit Ethernet, with PISA®-Bus, Half Size, without Memory.

➤ 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 GmbH
Brunnwiesenstr. 16
94469 Deggendorf
Germany

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

kontron