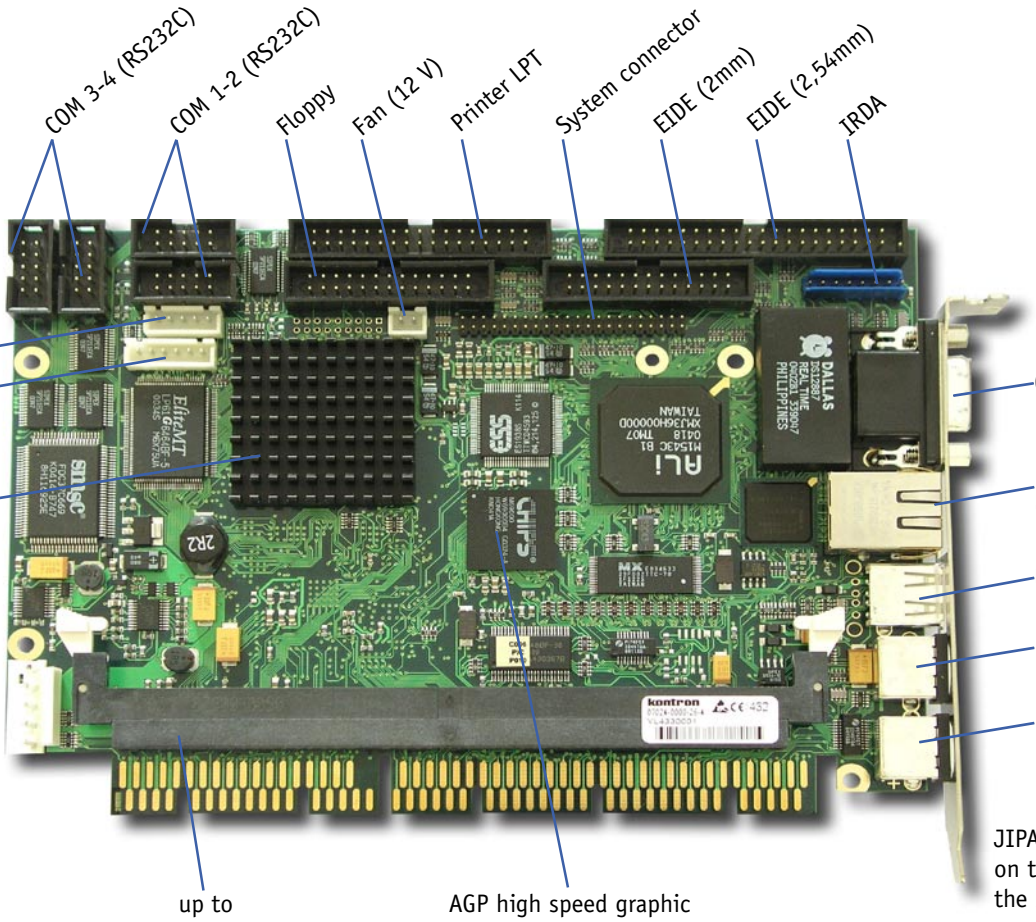
coolMONSTER/S



less than 2 cm (0.8“)
height with installed
SDRAM Module

READY FOR Microsoft Windows CE

PISA Technology

- fanless Pentium MMX - no moving parts
- total height < 20mm
- 4x COM and Sound onboard

Product Overview

The coolMONSTER (CMP/S) is a „all in one" Intel® Pentium® MMX™ based slot PC with consistent low power design. 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. The low power Version of the Intel® Pentium® processor allows the usage of the board without active cooling in applications, where reliability and space limitations are major requirements. It is now possible to create systems, combining high CPU performance with low power consumption. Beside all standard interfaces (four serial ports, one as RS232 or RS485, EPP/ECP parallel port, fl oppy, EIDE, USB and IRDA port) a Soundblaster compatible Soundchip and a high speed AGP video controller (C&T 69000) is available. It can operate CRT monitors and LCD fl at panels (mono, STN and TFT) in parallel. Flatpanel displays with resolutions up to 1280x1024 can be connected easily without dealing with jumper settings or display timings. The JIPA interface, developed by JUMPtec®, provides an autodetect mode, which initializes the video controller according to the connected display automatically. 2 MByte of video memory are already integrated on the graphic controller. Two EIDE ports are available to support various mass storage devices. The JUMPtec® chipDISK, a IDE compatible fl ash disk up to 96 MByte, can be attached directly. Additionally the coolMONSTER is equipped with a 10/100Base-T Ethernet (Twisted Pair). For operation in safety relevant applications, an intelligent watchdog is integrated as well.

Technical Information

CPU
Intel® Mobile Pentium® MMX™ 266 MHz
DRAM
1 DIMM socket up to 256 MByte
SDRAM, space saving version
Cache
512 kByte
Sound
Soundblaster compatible Full duplex Line In and Line Out Stereo Mic In
Mono 3D audio effect processor
High Speed AGP video controller
Simultaneous operation of LCD and CRT monitor possible
Drives all kinds
of flat displays (mono LCD,TFT,STN...) of various vendors
Resolutions CRT and LCD
VGA 640x480 16 Mio. colors, SVGA 800x600 16 Mio. colors,
XGA 1024x768 64 k colors, SXGA 1280x1024 256 colors
Video RAM
2 MByte
Low power consumption max. 2.1 A (10.5 W)
with 266 MHz CPU, 32 MByte SDRAM, (DOS prompt, typ.)
Max. humidity
operation:10% to 90%; storage: 5% to 95% (non condensing)

Automatic display detection
JIPA
Serial interfaces
4xRS232 (16 Byte FIFO), COM4 as RS232 or RS485
Parallel port
EPP/ECP, bi-directional
Floppy interface
✓
Harddisk
EIDE interface Ultra33 DMA mode, 1x 40pin, 1x 44pin
Ethernet
10/100Base-T Twisted Pair (RJ45)
USB port
2x
IRDA interface
Sharp-IR and IRDA SIR
Dimensions
175x125x20 mm (6.9x4.9x0.8")
Temperature
operation: 0° to 60°C, CPU: 0 to 95°C
storage: -10° to 85°C

Ordering Information

Article	Part.-No.	Description
CMP/S266L-E4	07024-0000-26-4	coolMONSTER 266 MHz, Ethernet, sound, 4x serial

Corporate Offices

Europe, Middle East & Africa
Brunnwiesenstr. 16
94469 Deggendorf - Germany

Tel.: +49 (0)991/ 370 24-100
Fax: +49 (0)991/ 370 24-102

sales-kem@kontron.com

US/ Canada
6260 Sequence Drive
San Diego, CA 92121-4371

Tel.: (858) 677-0877
Fax: (858) 677-0898

sales@us.kontron.com

Asia Pacific
5F-1, 341, Sec 4, Chung Hsiao E.
Rd, Taipei, Taiwan

Tel: +886 2 2781 5791
Fax: +886 2 2741 7379

sales@kontron.com.tw

#coolMONSTER/S#0408pda
All data is for information purposes only and not guaranteed for legal purposes. Subject to change without notice. Information in this datasheet has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccurancies. All brand or product names are trademarks or registered trademarks of their respective owners. DIMM-PC® and JUMPtec® are registered trademarks of Kontron Embedded Modules GmbH, Germany. Rev #WEBtoNET-030301-e

kontron
... always a Jump ahead!