

PIP5

Skillful Performance

General Description

The PIP 5 is a member of the low power, MPL-PIP family of industrial PC's. The PIP 5 represents a unique solution for today's demanding industrial needs. The PIP family consists of Intel and Motorola based CPU's with various options including a complete, compact aluminum chassis and the ability to operate under extreme or normal conditions without the need for fans.

The PIP 5 Specialties

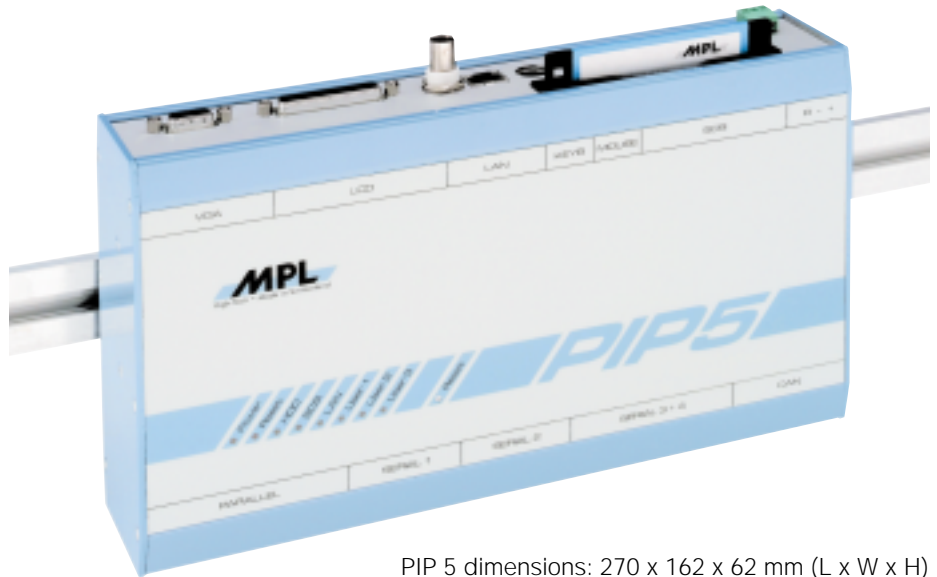
are the extreme low power consumption by using the embedded version of the AMD5x86-133 processor and the special design of the board. With on-board features such as RS232/422/485, CAN controller and the efficient a 8-28 V DC power supply the PIP 5 maintains many standard PC capabilities. The PIP 5 is available with on board options for SCSI and/or Ethernet.

Other unique features include:

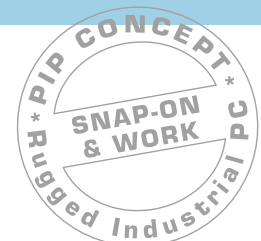
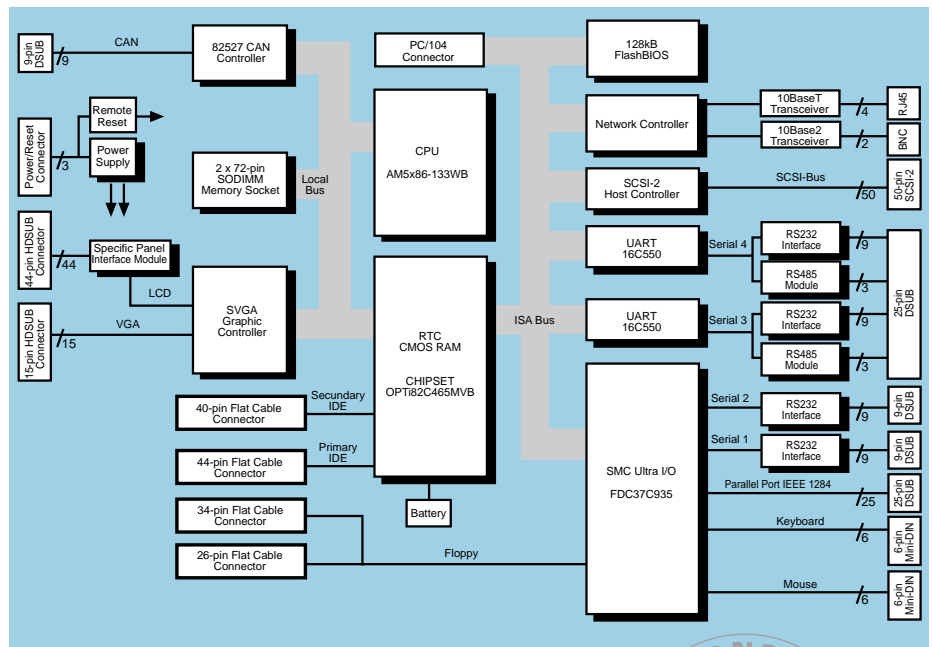
- Fanless operation
- Extreme and extended temperature operation
- Complete shock and vibration versions
- Customer specific versions

Altogether

these key features and more make the PIP 5 the ideal solution for applications where a flexible, compact, rugged and long-term available industrial PC is needed.



PIP 5 dimensions: 270 x 162 x 62 mm (L x W x H)
Weight: 2.2 kg, rugged aluminum housing with best EMI protection



Technical Features PIP 5

Electrical		
Processor	AMD 5x86-133MHz WB Enhanced Processor	32-Bit, lower power CPU
CPU Speed	50 up to 133 MHz	
Chipset	the selected chipset is guaranteed long-term available	
BIOS	Phoenix BIOS, in updateable 128kB Flash BIOS ROM	
DRAM	2 x 72-pin SO-DIMM module sockets for up to 64MB	EDO & FPM
FLASH	44-pin header for IDE Flash Disk	bootable
RTC & CMOS-RAM	backed with on-board battery	Y2K compatible
SVGA Interface	for CRTs 1024 x 768 with 256 colors (64k colors optional) for panels 800 x 600 with 256 colors, 2 TTL I/O for contrast control	15-pin D-SUB refresh rate up to 75Hz 44-pin D-SUB connector remote MMI option
4 x Serial Port	configurable as COM1...COM4, software configurable interrupts 2 ports can be modified optionally to RS422/485 half duplex operation (2 wire), electrically fully isolated	2 x 9-pin D-SUB 1 x 25-pin D-SUB connector
Parallel Port	configurable as LPT1...LPT3, SPP, EPP, ECP (IEEE1284)	25-pin D-SUB connector
E-IDE Port	PIO mode 3	44-pin header & 40-pin header
FDD Port	for internal floppy drive, up to 2 drives	26-pin & 34-pin header
CAN Bus	opto isolated CAN Bus interface	9-pin D-SUB connector
Expansion	full 16-bit PC/104 interface	
Speaker Port		internal 4-pin header
Keyboard	PS/2 keyboard interface	6-pin mini DIN connector
Mouse	PS/2 mouse interface	6-pin mini DIN connector
Indicators	8 activity LED's, 3 user definable	
Reset Button	on chassis (protected) and a remote reset button	
On-board Option		
SCSI Interface	ASPI, SCAM and Fast SCSI compatible, bootable	50-pin SCSI-2 connector
LAN	compatible with NE 2000, configurable interrupts and I/O base	10BaseT & 10Base2 connector
Physical/Power		
Chassis	rugged aluminum chassis with best EMI protection	DIN-rail or wall mounting
Size & Weight	270 x 162 x 62 mm (L x W x H) standard size / 2.2 kg	10.6 x 6.4 x 2.4 inch / 4.85 pounds
Power	on board high efficiency switching regulator	8 – 28 VDC supply power
Power Consumption	typically < 7.5 Watts	
Temperature Range	0°C up to +60° optional – 40° up to +75°C	no fan or openings in housing
Shock & Vibration	complies with EN60068-2-6 and EN60068-2-27 (optional)	
Approval Lists	CE, (EMI)EN50081-2, EN 50082-2, test data available for review	

PIP 5 Base Board

- without Ethernet & SCSI
- with Ethernet
- with Ethernet & SCSI
- customer specific

Available Internal Options

MMI

- 6.4" TFT panel (640 x 480)
- Touch screen (finger & pen)

Panel Option

remote MMI operation for up to 10 m, including connector for:
PS/2 mouse & keyboard, RS232, power for panel up to 10 Watts

Add-On's

- 2.5" Hard Disk
- Flash Disk
- 3.5" slim line Floppy Drive
- PCMCIA Drive (2 Slots)
- any PC/104 expansions like:
- Digital I/O, Analog I/O, Fieldbus, custom boards ...

MPL AG is an ISO 9001 certified company



Täferstrasse 20
CH-5405 Baden-Dättwil
Tel. +41 (0)56 493 30 80
Fax +41 (0)56 493 30 20
Email: info@mpl.ch
Home page: www.mpl.ch

Your local distributor