MOPS/386A
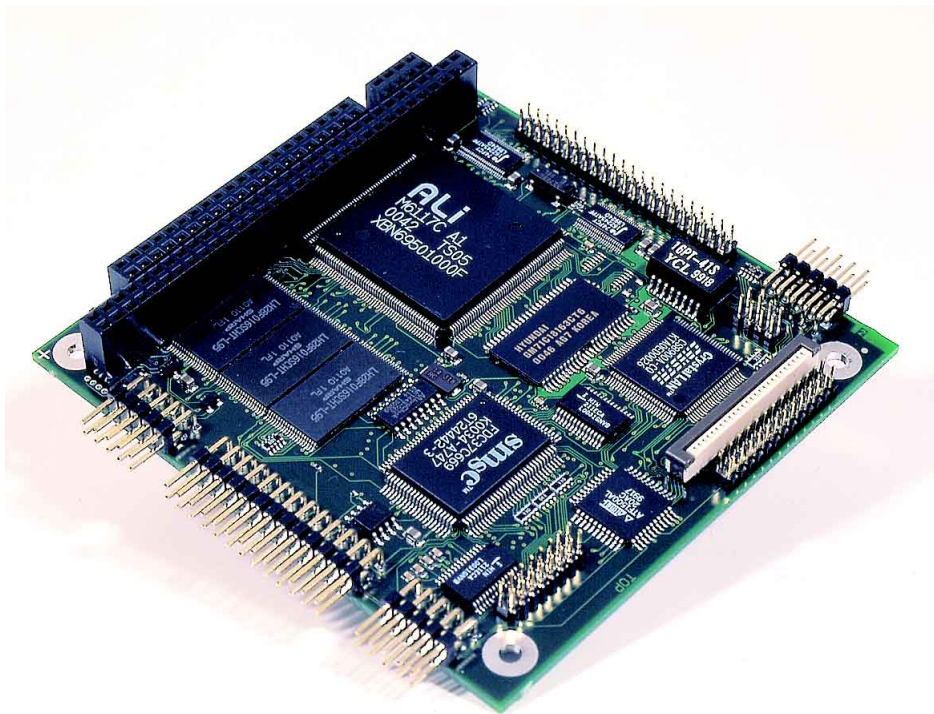

EMBEDDED-PC PC/104 MODULES

READY FOR Microsoft® Windows®CE

➤ low power processor - no moving parts
➤ soldered RAM and Flash
➤ LAN, touch matrix and LED character display interface

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Product Overview

Embedded, that is strong requirements for the used components, that are responsible for the systems' reliability. These requirements are no moving parts, no active heat dissipation, low power consumption, e.g. less than 2,5 watt and standard PC interfaces.

The **MOPS**/386A disclaims moving parts at all, like socketed flashes and DRAMS, batteries and rotating fans. The systems reliability is enhanced significantly.

With an ALi® 386er CPU at 40 MHz as well as 2 MByte DRAM and 4 MByte Flash most tasks are met, that a real embedded PC/104 has to face.

Onboard 10Base-T Ethernet qualifies the board for embedded Internet-applications and expands its use. The CPU is fully ISA-Bus compliant.

Rounding up interfaces there is furthermore an 8x10 touch matrix-interface. Due to its extreme low power design and low power consumption no cooling device at all is needed.

MOPS (Minimized Open PC System) PC/104 products represent the „Proven PC Platform for Instant Solutions". Each MOPS module is characterized by the same pinout for keyboard, COM1 and COM2, 44-pin IDE, LPT, and 1st LAN. These homogeneous features facilitate easy upgrades within the Kontron MOPS PC/104 product family.

Together with the firmly lockable chipDISK (32 to 256 MByte Flash) a highly reliable PC-system in small PC/104 format emerges - suited even for rough & rugged industrial applications.

The **MOPS**/386A is made for real embedded communications- and control-applications.

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Technical Data

➤	**PC/104 industrial standard**	
➤	**CPU:**	80386SX compatible, 40 MHz
➤	**DRAM:**	2 MByte fixed
➤	**bootable Flash Harddisk:**	2/ 4 MByte soldered onboard with chipDISK extendable up to 256 MByte
➤	**10 BaseT LAN Option**	✓
➤	**LAN BOOT**	✓
➤	**IDE harddisk interface**	✓
➤	**Floppy Disk interface**	✓
➤	**Printer interface**	✓
➤	**Keyboard interface**	✓
➤	**2x RS232C**	✓
➤	**Interface for multiline character display:**	e.g. 4 x 20 signs. A „copy to display" function enables to display CRT information on the character display
➤	**Matrix Touch Screen:**	or matrix key board connectable up to 16x10 keys
➤	**Power fail**	✓
➤	**Setup in flash**	✓
➤	**Watchdog**	✓
➤	**Real Time Clock**	✓
➤	**Dimensions:**	96 x 90 mm (3.8x3.6")
➤	**Power Consumption:**	5V, typ. 430 mA
➤	**Plug compatible to other MOPS PC/104 and therefore exchangeable**	
➤	**Temperature:**	operation: 0° to 60°C storage: -10° to 85°C
➤	**Humidity:**	operation: 10% to 90% storage: 5% to 95% (non condensing)

Article	Part.-No.	Description	
MOPS/386A	01015-0202-33-0	386SX, 40MHz, 2 MByte DRAM, 2 MByte Flash-Harddisk	
MOPS/386A	01015-0204-33-0	386SX, 40MHz, 2 MByte DRAM, 4 MByte Flash-Harddisk and 10 BaseT- LAN	

Article	Part.-No.	Article	Part.-No.
chipDISK	Optional	JRC1	96047-0000-00-0
KAB-MOPS-SET2	96002-0000-00-0	CONV-RS485G	96014-0000-00-0
KAB-KB-1	96023-0000-00-0	KAB-FLOPPY-MOPS-1	96019-0000-00-0
KAB-DSUB25-1	96015-0000-00-0	KAB-IDE-25	96020-0000-00-0
KAB-DSUB9-2	96017-0000-00-0	KAB-IDE-2MM	96021-0000-00-0
ADA-FLOPPY-2	96001-0000-00-0		

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