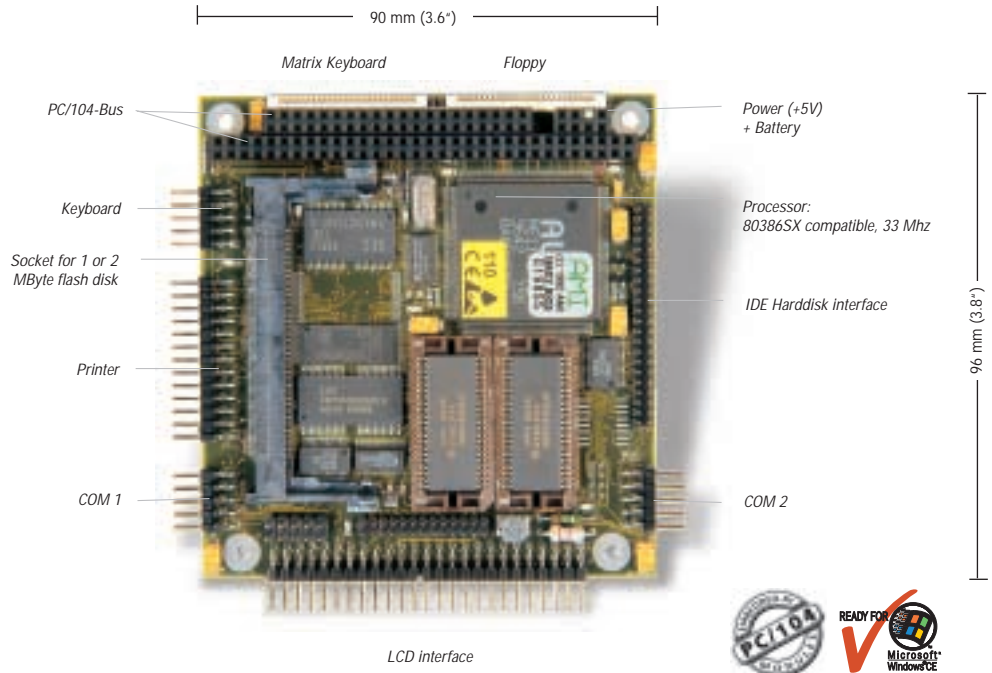


Technical Data

- **PC/104** industry standard
- **CPU:** 80386SX compatible, 33 MHz
- **DRAM:** 2 MByte (fixed soldered on) extendable to 4 and 6 MByte (via Socket)
- **Bootable Flash Harddisk:**
Version 1: BIOS compatible:
 1 (0,9) MByte fixed soldered extendable with DIMM-Module to 1,9 or 2,9 MByte
Version 2: IDE-compatible:
 with chipDISK expandable up to 96 MByte
 Version 1 and 2 can operate parallel
- **VGA-Graphic** for flat panels and CRT monitors
- **Resolutions:**
 on CRT usage:
 320x240 256 colors out of 262k
 640x480 256 colors out of 262k
 800x600 256 colors out of 262k
 1024x768 16 colors out of 262k
 on LCD usage:
 320x240 256 colors out of 262k
 640x480 256 colors out of 262k
- **512 KByte Video-RAM**
- Supports **LCD, TFT and STN**-flatdisplays (color or monochrome)
- **Automatic recognition of the connected display**
- Backlight protector for flat panels
- **Dark-Boot-Function** -> suppression of the boot indication of the PC
- **Text compression for ¼ VGA display**
- **Matrix-touch or Matrix keyboard** with up to 8x10 Keys (with extension 16x10) connectable
- **Floppy- and IDE harddisk** interface
- **Serial interfaces:** 2 x RS232C
- **Printer port:** LPT bidirectional
- **AT keyboard** interface
- **Watchdog timer**
- **Ethernet, twisted pair (Option)**
- **Setup in flash** (i.e. bootable without a battery)
- **Realtime clock**
- **Dimension:** 96x90 mm (3.8x3.6")
- **Power consumption:** 5 V, typ. 700 mA
- Mostly plug-compatible with MOPS/586, MOPSlcd4, MOPSplus, MOPSlcd6 and thus exchangeable with each other.



Description

The MOPSlcd3 (Minimized Open PC System) is a highly integrated CPU card in the PC/104 format. In spite of the compact dimensions, all common PC interfaces are available including a graphics controller, as well as an Ethernet interface. The component is also able to drive a monochrome, passive color (STN) or active color (TFT) flat panel display or a normal VGA-monitor. The voltage for the contrast control is generated on board. More than 60 different display types are automatically recognized and the timing is adjusted. The flat display may be operated simultaneously to a standard-monitor (CRT). An integrated backlight protector switches off the backlight after an adjustable time, if no screen activities take place. A "dark boot mode" suppresses the typical PC boot messages during system startup, and leaves the display dark during this phase or enables the output of customer specific messages.

By special features like hardware cursor, color expansion, 16 bit memory and 16 bit I/O-access (especially under Windows), a very high graphics performance is attained. Besides the VGA-function, all other peripheral functions of a PC, like floppy- and hard disk connection are available. In addition, an interface for implementing a matrix keyboard or a matrix touch screen with up to 8 x 10 (with an additional circuit 16x10) fields is available. The integrated flash disk is bootable and can operate in a DOS environment like a "normal" hard disk. To improve reliability an intelligent watchdog timer, a monitoring of the boot phase and a power fail circuit are integrated. By storing the setup parameters in the flash EPROM, the unit is able to run without a system battery. The MOPSlcd3 is the ideal unit for integrating PC functionality to compact devices for measurement, terminals and medical applications.

Ordering Information

Article	Part.-No.	Description
MOPSlcd3	01020-0201-33-0	386SX, 33MHz, 2MB DRAM, 0,9MB Flash-Harddisk
MOPSlcd3	01020-0201-33-1	386SX, 33MHz, 2MB DRAM, 0,9MB Flash-Harddisk, Ethernet

Accessories

Article	Part.-No.	Article	Part.-No.
MOPSlcd3-DOC	96035-0002-00-0	ADA-FLOPPY-2	96001-0000-00-0
DRAM-SOJ-1x16-6	UKM416C12AJ6H4H	FLOPPY-3,5	96009-0000-00-0
SDISK-DIMM-1M	97002-0001-00-0	FLOPPY-MOPS-1	96010-0000-00-0
SDISK-DIMM-2M	97002-0002-00-0	KAB-FLOPPY/MOPS-1	96019-0000-00-0
chipDISK	option	KAB-IDE-25	96020-0000-00-0
KAB-MOPS-SET2	96002-0000-00-0	KAB-IDE-2MM	96021-0000-00-0
KAB-VGA-1	96025-0000-00-0	JRC1	96047-0000-00-0
KAB-KB-1	96023-0000-00-0	CONV-RS485G	96014-0000-00-0
KAB-DSUB25-1	96015-0000-00-0		
KAB-DSUB9-2	96017-0000-00-0		