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Technical data

CPU

Intel 386EX embedded Processor, 33 MHz

Memory

2 MB (opt. 4 MB or 8 MB) as Flash disk
1 MB (max. 4 MB) battery-supported SRAM
Serial EEPROM with 256 bytes
Optional: CompactFlash (bootable)

Interfaces

2 serial interfaces
PIF bus (universal 8-bit bus with 64 I/O addresses)
IDE interface
On-board Ethernet
I²C interface
JTAG interface
1.84 MHz clock output
8 interrupt inputs; Timer inputs and outputs

Firmware

PC-compatible embedded BIOS
Optional: Datalight ROM-DOS or other versions of DOS, Datalight Sockets license for DOS, TCP/IP stack

Power management

Supply voltage: 5 V (optionally 3.3 V)
Power usage at 5 V: max. 350 mA (33 MHz)
Idle mode: 32 mA (internal interfaces remain in operation)
Power-down mode: 4 mA
Voltage comparator for power failure monitoring

Miscellaneous

Unique, unchangeable hardware serial number
Extended temperature range: -40 °C ...+85 °C

Housing

Dimensions: 54 x 96 mm

We`re here for you!

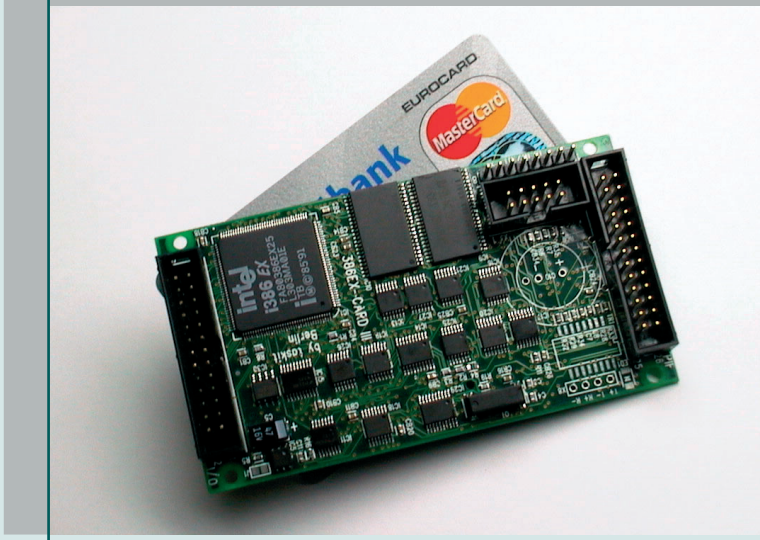
Do you have your own ideas about innovative uses for the 386EX-Card III?
Discuss the myriad customization possibilities directly with our creative development team and put our check-card computer to work for your enterprise!

taskit Rechnertechnik GmbH
www.taskit.de/en

embedded systems

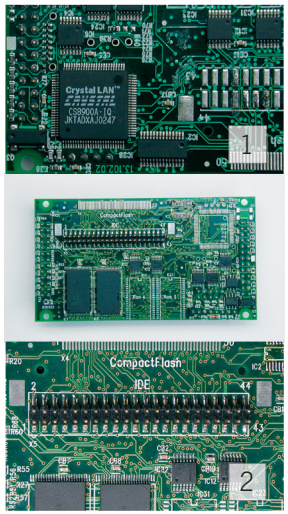
taskit

386EX-Card



The third-generation check-card computer

The 386EX-Card is one of the smallest DOS computers. Its compact and robust construction, minimal power usage and varied possibilities for connectivity make the 386EX-Card ideally suited for demanding tasks in industrial applications. It is optionally available with Ethernet (1) and/or an IDE interface (2).



Power-saving and compact

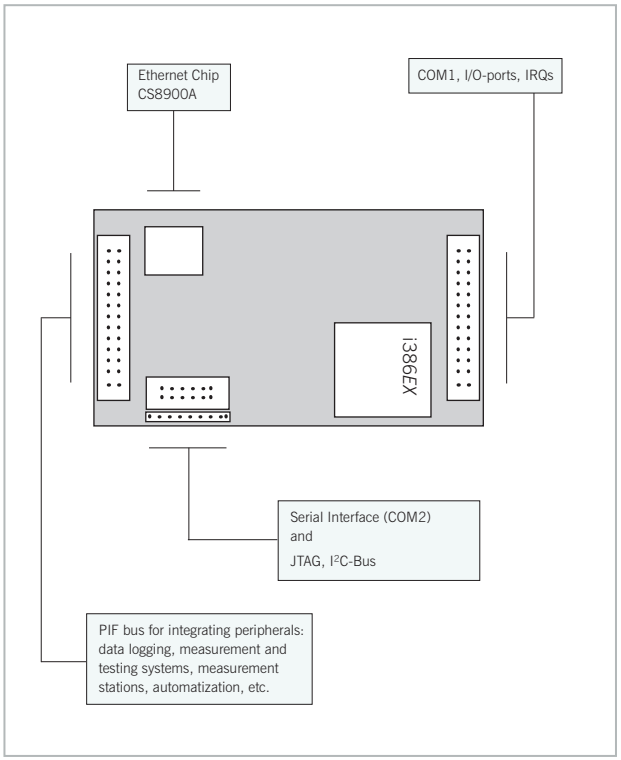
At 54 x 96 mm, the 386EX-Card is the size of a check card and ideal for compact and mobile applications (e.g., for mobile data recording, LCD terminals, measurement and test devices, intelligent alarm systems or automatization).
Innovative, efficient power management ensures that the 386EX-Card's power consumption in everyday use is just as small as its size (4 mA in power-down mode and max. 350 mA in operation at a CPU clock-speed of 33 MHz).

DOS compatible

The 386EX-Card is DOS compatible, enabling you to work in an established and familiar development environment. Create custom software solutions efficiently using the usual compilers (C, Pascal, Basic). Without major development costs, you can develop effective applications customized to the needs of your company.

A variety of interfaces

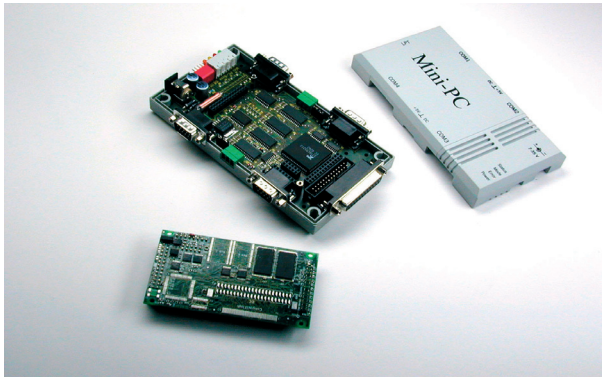
The core of the check-card PC is an Intel 386EX CPU. You can save data and applications to the integrated Flash memory, to an optional CompactFlash card or to a drive connected to the IDE interface. A variety of additional interfaces (including two serial interfaces, Ethernet, IDE, PIF bus and I/O ports) are available for connecting external peripherals.
The PIF bus, an easy-to-program 8-bit bus, enables straightforward peripheral operation; there are practically no limits to integrating customer-specific hardware. If you wish, you can order readymade standard components as accessories for a wide variety of applications.



Connections diagram, 386EX-Card

Quickly connected

A terminal program (e.g., the included VTERM software) provides straight-forward communication between the 386EX-Card and a development or maintanance computer connected to the serial interface. A specially developed Remote Drive driver permits you to map any drive or directory of the host PC from the DOS prompt, from your application, or automatically upon startup. You can, for example, copy data and applications to the 386EX-Card Flash memory with simple DOS commands.



386EX-Card starter kit

Ready to use

The starter kit (housing version) empowers you to put the check-card PC to work immediately, without additional hardware or software.

The starter kit's construction corresponds to the taskit Mini-PC and includes all required cables and utilities. Just connect the 386EX-Card to the serial interface of your PC or to an Ethernet connection in your network. In no time at all, you will have a versatile and economical miniature computer at your disposal.

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