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New SIMATIC BOX PC 840 V2

Entry | Associated product(s)

The new **SIMATIC BOX PC 840 V2** with Intel Pentium 4 microprocessor technology has been released for delivery.

The salient features of the SIMATIC Box PC 840 V2 are:

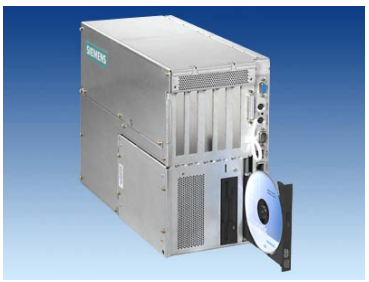
- Expandability (5 slots)
- High performance
- Robust design

It provides machine, system and panel builders with an industrial PC platform for:

- Measurement and control of process and machine data, e.g. redundant process control system or transport systems in manufacturing plants
- Operator input and control tasks with separate displays or monitors, e.g. concrete-making machines
- Data acquisition and data processing, e.g. acquisition of operational data, distributed process control.

The SIMATIC Box PC 840 has a CE label for use in industrial areas and in domestic and business areas and can therefore be used not only in industry, but also in building automation or in public buildings.

The **new SIMATIC Box PC 840 V2** (6ES7647-6M....-....) is mounting compatible to the previous SIMATIC Box PC 840 (6ES7647-4....-...0) and replaces the latter.



The new **SIMATIC Box PC 840 V2** is service friendly and scalable, as was its predecessor, the SIMATIC Box PC 840. A special feature is the increased system performance as a result of the new motherboard, which is based on Intel Pentium 4 microprocessor technology and **still has ISA slots** in addition to to-day's normal PCI slots. High-performance Intel microprocessors (Pentium 4, 2.4 GHz) from the Embedded Linie ensure a long-term and stable product design in conjunction with the ISA slots. When used with a **Pentium 4 Mobile 2.2 GHz** microprocessor, the SIMATIC Box PC 840 V2 can be operated at ambient temperatures of up to 55° C, or with a 24V DC power supply. The innovation mainly affects the size of the main memory (now up to 3 Gbytes) and the support of high-performance USB V2.0 peripherals (e.g. external hard disk for data backup). The available configuration options include hard disks (40 or 80 Gbytes), optical drives (CD-ROM or DVD-ROM/CD-RW Combo) and a Profibus interface, as well as a graded concept to increase system availability by means of mirror disks (RAID1), SIMATIC PC DiagMonitor (diagnostics and signalling software) and SIMATIC PC ImageCreator (data backup software).

Due to its robust design, the SIMATIC Box PC 840 V2 will perform even under adverse conditions: For example: Shock and vibration damping hard disk mountings, card retainers for the PC modules, temperature-controlled fans and an optimized heat dissipation concept. The wide-range power supply for 110/230 Volt AC will bridge short voltage outages of up to 20 ms acc. to Namur. Integrated, programmable monitoring functions for temperature, fan and program execution (watchdog) enable early detection and correction of faults.

The important highlights of the new SIMATIC Box PC 840 V2

Higher system performance and more functionality with State of the Art technology:
- Intel Pentium 4 up to 2.4GHz
- Front Side Bus (FSB) up to 533 MHz
- Main memory expansion up to 3 Gbytes
- High-speed USB 2.0 interfaces (up to 480 Mbps) to connect external hard disks or optical drives
- Booting capability via external USB drives
- Improved graphics functionality acc. to AGP 4x standard
- New DVI-I monitor interface to connect DVI and VGA monitors

High product continuity due to long-term assurance of hardware functionality
- Components from the Intel / VIA Embedded Roadmaps
  - Intel Celeron or Pentium 4 "Embedded Line" microprocessors
  - VIA chipset with integrated graphics
- Support of legacy PC functionalities: PS/2, LPT, ISA, MSDOS and WinNT
- PC Development and manufacture (incl. motherboard) by Siemens

High industrial suitability due to the use of Intel Pentium 4 Mobile microprocessors
- up to 55oC ambient temperature
- very robust due to vibration-absorbing hard disk holder

Product description - basic design

- Robust metal casing, vibration and shock resisting, with high EM compatibility
- Card retainers for PC modules for safe operation (vibration, shock)
- Microprocessor:
  - Intel Celeron up to 2 GHz
  - Intel Pentium 4 up to 2.4 GHz
- Main memory: 128 Mbyte, expandable to 3 Gbytes

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Drives: Digital ID (http://www.siemens.com/digital_id_en) 0.0.0.0

Hard disk: ≥ 40 Gbytes;
vibration-absorbing hard disk holder ensures reliable operation even in the case of high mechanical loads

Diskette drive: 1.44 Mbyte, 3.5"

On-board graphics, on AGP bus, 1280 x 1024, 85 Hz, 16 Mio. colors

Ports (accessible from one side):

Ethernet on-board

2 x USB V2.0

Legacy: PS/2, COM1, COM2, LPT1

Free expansion slots:

1 x PCI short, 1 x PCI long

2 x PCI/ISA (shared) long

1 x ISA long

Power supply: 120/230 V AC (wide range), 50/60 Hz

Optional extras:

Main memory up to 3 Gbytes

1 x 3.5" hard disk 80 Gbytes

2 x 2.5" hard disks 30 Gbytes or RAID1 system

CD-ROM or CD-R/W/DVD drive

PROFIBUS/MPI on-board, CP5611 compatible

Power supply 24 V DC (in conjunction with Intel Pentium 4 Mobile)

Pre-installed operating systems

MS-DOS

Windows NT 4.0 WS (G/E)

Windows 2000 Professional MUI (G/E/F/I/Sp)

Windows XP Professional MUI (G/E/F/I/Sp)

SIMATIC PC DiagMonitor

SIMATIC PC/PG Image Creator

Security information

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https://www.siemens.com/cybersecurity#Ouraspiration. (https://www.siemens.com/cybersecurity#Ouraspiration)

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Entry belongs to product tree folder(s):

› Automation Technology › PC-based Automation › SIMATIC Industrial PC › Archive › SIMATIC Box PC › SIMATIC Box PC 840 (V2) (products?pnid=16892)

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