

Automation and Drives

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High-performance rack PC with a wide range of expansion options suitable for complex automation tasks

Siemens Automation and Drives (A&D) has equipped its new industrial PC, the Simatic Rack PC 847B from the robust 19-inch series, with the latest Intel generation of Core2 Duo processors, chip-set technology and memory. Due to its high computing power and PCI Express, the PC is especially suitable for complex automation tasks such as rapid processing of large amounts of data in measuring systems, test bays or industrial image processing.

Like all industrial PCs from Siemens, the new rack PC is also designed for long-term availability and offers high interface continuity. The PC is available with either eight or eleven PCI/PCI-Express slots, offers extensive expansion options and features excellent EMC (Electromagnetic Compatibility) with high resistance to shock and vibration. It is designed for industrial use and works without power loss in ambient temperatures up to 50 degrees Celsius. The housing is extremely resistant to dirt and is protected against the ingress of dust by a pressurized cooling system with temperature-controlled fans and exchangeable filters. The new rack PC has double the computing power of its predecessor. The version with a 2.16 gigahertz Intel Core 2 Duo T7400 processor and a four-megabyte second-level cache as well as the version with a 1.66 gigahertz Intel Core2 Duo T5500 processor and a two-megabyte second-level cache have a 677 megahertz front side bus (FSB). The device with a 1.86 gigahertz Intel Celeron M-440 processor has a 533 megahertz FSB. The Intel 945GM Express chip set with a serial ATA II, USB 2.0, PCI-Express-x16 interface for graphics expansion and a

PCI Express x4 interface for faster access to I/O units enhance the overall performance. For especially fast system reactions, the DDR2 main memory with dual-channel support can be increased to a size of up to four gigabytes.

For faster data transmission and higher drive reliability, hard disks with Native Command Queuing (NCT) technology are used. A high level of system availability and data security is provided by the hot-swap replaceable rack and the RAID1 mirror disk configuration, which allows the hard disk to be replaced without interrupting operations. The RAID controller is already on-board and does not occupy any additional PCI slot. System availability is also enhanced by integrated diagnostic and alarm functions for temperature, the fan and program execution (watchdog), supplemented by a front LED solution for efficient self-diagnosis, for example for monitoring the hard disks in RAID1 configurations or for indicating the status for Ethernet or Profibus communication.

The equipment of the Simatic Rack PC 847B includes six USB 2.0 ports, two of which are on the front (one can be used when the door is closed), seven PCI slots as well as two 10/100/1000 megabit-per-second Ethernet connections. Additional interfaces are 2x COM, 1x LPT, 2x PS/2, 1x VGA and an audio interface as well as 1x Profibus/MPI with 12 Mbit/s and 1x DVI as options. For dual monitoring purposes, a PCI Express x16 graphics card is available. A DVD-ROM or DVD±R/RW as well as Windows 2000, XP Professional or Server 2003 preinstalled as the operating system are additional options. The new 19-inch rack PC is available for mounting horizontally or vertically in cabinets and has an optional tower kit for use as an industrial workstation or server in control rooms in the manufacturing and process industries.

Further information in the Internet at: www.siemens.de/simatic-pc

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