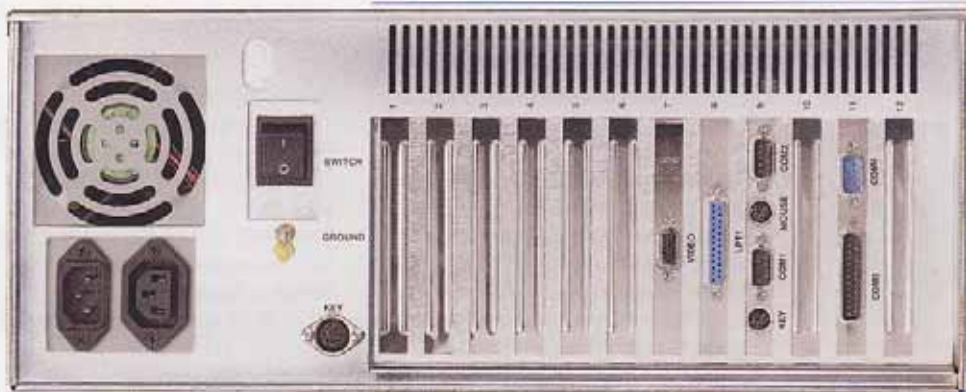


- Rugged completely metal design.
- Special EMI/RFI shielding between the chassis and the slot covers.
- Overpressure air cooling with dual, long-life ball bearing fans and an air filter element which is easily replaceable from the front.
- Robust CPU heat sink conducts the heat from the processor and dissipates it efficiently to the ambient.
- Shock and vibration-proof HD, FD and CD mounting (removable from the front for inspection).
- Clamp secures plug-in XT/AT and PCI cards.

s703

Safety

Do you know
Aartec's 24 hour
safety system?



Aartac

Aartec's professional industrial PC s703 is equipped with a powerful processor (80386, 80486, PENTIUM or PENTIUM II). The construction is modular and ISA or PCI units are easily added. Other hardware features are a hard disc, CD-ROM, floppy disc and bootable silicone disc. According to configuration, this professional industrial PC can be used as control computer, workstation or server running a Windows® (3.11, 95/98 or NT), MS-DOS®, RTX-DOS®, QNX®, OS/2® or UNIX® operating system.

s703



Pentium ISA/PCI single-board computer with watchdog timer for supervising program execution.



Safety system

Power supply supervision and standby:

The power supply of an industrial PC is obviously extremely critical and yet more or less frequent interruptions and out-of-tolerance conditions are always possible. That is why the power supply to the s703 industrial PC is continuously supervised with respect to over and undervoltage, voltage spikes and complete failure and if necessary automatically switched over to a standby battery (maintains supply for 15...30 minutes). The energy management software for the Windows, Unix, OS/2 and Novell operating systems provides a real-time display of all the vital operating parameters (supply failure, low battery, overload, replace battery and automatic battery charger). The system also responds to alarm conditions to guard against loss of data and if necessary to automatically and safely shut down the industrial PC (local or remote control via a network).

Temperature supervision: The ambient temperature exercises a significant influence on the reliability of an industrial PC. For example, for every 10 °C of temperature rise, the MTBF (mean time between failure) reduces by about half. The temperature in the s703 industrial PC is therefore supervised and the CPU clock rate automatically reduced if it exceeds a predefined limit. A software tool is provided for alarm evaluation.

Supervision of program execution: The execution of the program is supervised centrally by a watchdog. The watchdog gives alarm should it fail to receive a periodic impulse from the application program. Missing impulses mean that the application program is not responding and cannot perform essential functions. Depending on the application and the type of CPU, operation of the watchdog initiates a RESET or NMI (non-maskable interrupt), which causes the PC to go to the part of the program containing the start-up routines.

Technical data:

Construction: Robust zinc plated, fully metal casing with stove-enamel finish and overpressure air cooling. Space for two 3 1/2" and one 5 1/4" mass-storage units (floppy, hard disc or CD-ROM) in a shock and vibration-proof mounting.

Dimensions: W = 19" (483 mm) H 4HE (177 mm), D = 440 mm (+ approx. 50 mm for connecting cables). Weight approx. 18.5 kg.

Foreign body protection at the front: IP 50 (with door at front closed).

Power supply unit: Input 90...135/180...265VAC 50/60Hz (auto-select), output power 200W, conforms to TUV EN60950, UL1950, CSA22.2.

Power supply supervision and standby (optional):

Rated voltage 220...240VAC 50/60Hz (voltage range 165...275VAC). Standby battery (12V 7Ah) for 15...30 minutes depending on PC configuration. Longer standby supply periods on request. Alarms for supply failure, low battery, overload and replace battery. Energy management software for Windows, Unix, OS/2 and Novell operating systems.

Passive backplane: 8 slots total (3 ISA, 2 ISA/PCI 4 PC), optionally 10 slots total (4 ISA, 2 ISA/PCI and 4 PC).

Ambient conditions

Temperature range: Operation +5 °C to +40 °C; with air-conditioning unit -20 °C to +70 °C; storage and transport -10 °C to +60 °C.

Humidity: 10...85% (non-condensing).

Shock test: Operation 4g for 10ms, transport 15g for 10ms acceleration (half a sin wave).

Vibration: Operation 10...150 Hz, 0.5g; transport 10...150 Hz 1g (0.04 mm deflection peak-to-peak).

CE conformity

EN60950 (General Safety), EN55011 and EN55022 (EMC Emission), IEC801 -2 to -6 (EMC Immunity) and EN50082-1, -2 (CE Qualification).

Aartec® industrial PC's are based on the advanced standards:
WINDOWS®
MS-DOS®
RTX-DOS®
QNX®
OS/2®
UNIX®

Aartec

Aartec Ltd. Stauwehrstrasse 40 CH-5012 Schönenwerd Switzerland
Phone +41 62 858 88 88 Fax +41 62 858 88 58
E-mail: info@aartec.ch Homepage: www.aartec.ch