



Blue Chip *Technology*

Datasheet: Cadet Slim Line Industrial PC Chassis

The Cadet is an off the shelf, motherboard system built with the longevity, scalability and reliability of a ruggedized, industrial grade solution. Ideal for space constrained applications, the Cadet has a compact form factor and an attractive price tag.

Designed to operate 24/7, the chassis has three divisional cooling compartments and an operating temperature of 5°C to 40°C. Constructed from plated steel with an anti shock hard drive, the Cadet is an excellent choice for mobile environments subject to shock and vibration. The unit is light enough to be wall mounted, Blue Chip Technology also provide a rack mount conversion kit. Controls are all located on the front panel for ease of access.

Configured with Pentium® 4 or Celeron® processors, the Cadet supports up to 2GB of ultra fast DDR SDRAM. Operating system and application storage can be supported by either an ATA 100 hard drive, in a variety of sizes, or in truly harsh environments - flash drives. Where removable media is required, optional slimline CD, CD RW, DVD or floppy drives can be fitted. With superior graphics capabilities, the Cadet can handle hi- end imaging applications, CRT, DVI or S-Video outputs and multiple screen resolutions. Fully power managed, the chassis includes CPU and system watchdogs and optional default power up modes.

Where your project needs something a little different or just future proofing for the unexpected wireless, PCMCIA etc all can be supported by plugging a card into the internal PCI 2.2 slot. The Cadet also includes USB and AGP expansion.

Key Features

- ▶ Compact form factor (W425mm x H66mm x D246mm)
- ▶ Supports Pentium® 4 and Celeron® processors
- ▶ Wall mountable
- ▶ System watchdogs and monitoring
- ▶ PCI and AGP expansion



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BS EN ISO 9001:2000
Certificate No FM 33069

Technical Specification

System

Intel Pentium® 4 and Celeron® CPU and Intel® chipset
Phoenix AGP/PCI BIOS
Two 184-pin DDR sockets, DIMM memory modules - 64 MB to 2GB DDR SDRAM

Local Storage

Internal ATA100 Hard Drive and Flash Drive
Drive bay supports slimline CD, CD RW or DVD drive

Operating System Support

Windows XP, Windows XP Embedded and Windows 2000

Enhanced IO

One Standard/EPP/ECP parallel and two 16550 compatible serial port connectors
Two USB2.0 ports external, two further internal USB2.0 channels
Internal IrDA compatible infrared (IR)
EIDE Controller supports two Ultra DMA-ATA 33/66/100 drives
PS/2 mouse and keyboard

Expansion

AGP 4X slot and 32-bit PCI 2.2 slot (optional second PCI 2.2 slot)

Local Area Network

Realtek 8100 supports 10/100 Mb/s

Display/Audio

Built in Intel Extreme® Graphics 2D & 3D engine
Widescreen resolutions 848x480, 852x480, 1280x720, 1280x768, 1368x768, 1024x512, 1024x1024 (custom utility for other resolutions)
CRT, DVI & S-Video optional and MPEG II hardware decoding
0, 90, 180, 270 degrees without performance degradation (landscape & portrait)
Realtek ALC650 supports stereo through to full 5.1 sound systems
Supports Mic In, Audio In & Out in stereo mode

System Management

CPU and system temperature monitoring, fan speed and voltage monitoring
CPU throttling if temperature limits reached to prevent damage
Programmable watchdog timer from 2.4 to 37 seconds

Environmentals/Mechanicals

Unit size - W425mm x H66mm x D245mm
Operating temperature 5°C to 40°C Relative humidity 5 to 90%, non-condensing

Power

Compliant with EPA, APM 1.2 and ACPI, ATX soft-off power control
Power on by keyboard and mouse, external modem ring, alarm or LAN wake up
Power Modes: Auto Power On, Auto Power Off and Auto Resume
Power Input: 100 - 240 AC input (switched)