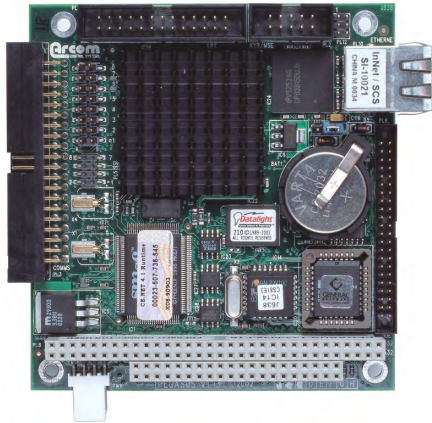


PEGASUS



PC/104 133MHz AMD SC520 single board computer

The PEGASUS 133MHz single board computer is targeted at high performance, low power OEM applications. Powered by a 133MHz AMD SC520 embedded processor, the PEGASUS board provides full 10/100baseTx network connectivity, four serial ports and a large resident Flash drive to offer true industrial PC/104 format compatibility for space-constrained applications.

The local Flash memory provides a secure and reliable Flash drive suitable for all popular embedded operating systems.

Typical applications

Applications in which the PEGASUS is widely used include:

- Remote data acquisition. The PEGASUS makes it possible to remotely connect to equipment situated out in-the-field to retrieve critical data which previously may have required an engineer to visit the site. Alternatively, the PEGASUS can be used to automatically dial out and alert service personnel that a site needs attention.
- Communications gateway. The PEGASUS can retrieve data and operate as a communications 'hub' to gather and process data in real-time.
- Monitoring real-world events. Operating in harsh or industrial environments, the PEGASUS can be used to control valves or other sensors for automatic control.

Features

- AMD Elan SC520 133MHz processor (Am5x86)
- 16kB unified cache
- Up to 64MB SDRAM (32MB standard)
- Up to 16MB Intel® StrataFlash – Datalight FlashFX Flash media management
- 128kB SRAM disk battery-backed (optional)
- National MacPhyter DP83815 10/100baseTx PCI Ethernet controller
- Four 16C550 compatible high speed UARTs: two RS232, one RS422/485, one TTL interface
- Support for two IDE devices (inc. CD-ROM drive)
- High speed parallel port, SPP/EPP/ECP modes
- Keyboard/mouse port
- Two user links
- SSI interface
- Watchdog – programmable from 492s to 32 seconds
- General Software's Embedded BIOS 4.3 in Flash EPROM – onboard BIOS reprogramming
- Real time clock, accuracy +/- 1 minute/month @ 25°C
- Dimensions: industry standard PC/104 format – 96mm x 91mm (3.8" x 3.6")
- Power requirements: 800mA (typical), 1.0A (max) @ +5V +/-5%
- Extended temperature operation: -20°C to +70°C
- Humidity: 10% to 90% RH (non-condensing)

Development Kits

The PEGASUS is supported by a rapid application Development Kit for embedded Linux (with Java™ technology).

Industrial Compact Enclosure

The PEGASUS can be supplied inside a rugged industrial compact enclosure (PEGASUS ICE), offering easy-to-use system solutions for embedded SBC applications.

ETL-PE-001