# PEGASUS

PC/104 133MHz AMD SC520 embedded PC

Features

- AMD Elan SC520 133MHz processor (Am5x86 CPU)
- 16Kbytes unified cache
- Up to 64Mbytes SDRAM
- Up to 16Mbytes Intel® Strata Flash
  - Datalight FlashFX Flash media management
- 128Kbytes SRAM disk battery backed (optional)
- National MacPhyter DP83815 10/100baseTx PCI Ethernet controller
- Four 16C550 compatible high speed UARTs
  - 2 x RS-232, 1 x RS-422/485, 1 x TTL interface
- Supports up to 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 492μs to 32 seconds
- Industry standard PC/104 format
- Extended temperature operation -20℃ to +70℃
- General Software's Embedded BIOS 4.3 in Flash EPROM
  - Onboard BIOS reprogramming

Description

Arcom's 133MHz single board embedded PC computer is targeted at high performance, low power OEM applications. The PEGASUS board is powered by a 133MHz AMD SC520 embedded controller and combines full 10/100baseTx network connectivity with four serial ports and a large resident Flash drive. The PEGASUS board offers true industrial PC/104 format compatibility for space constrained applications. The local Flash memory provides a secure and reliable Flash drive suitable for all the popular embedded operating systems.

Parallel port

Keyboard and mouse interfaces

10/100baseTx Ethernet

AMD SC520 133MHz processor
(fitted with heatsink as standard - heatsink not shown)

Four serial ports

Synchronous serial interface

IDE interface

Flash disk

Power (+5V @ 0.8A)

16-bit PC/104 interface

Actual size
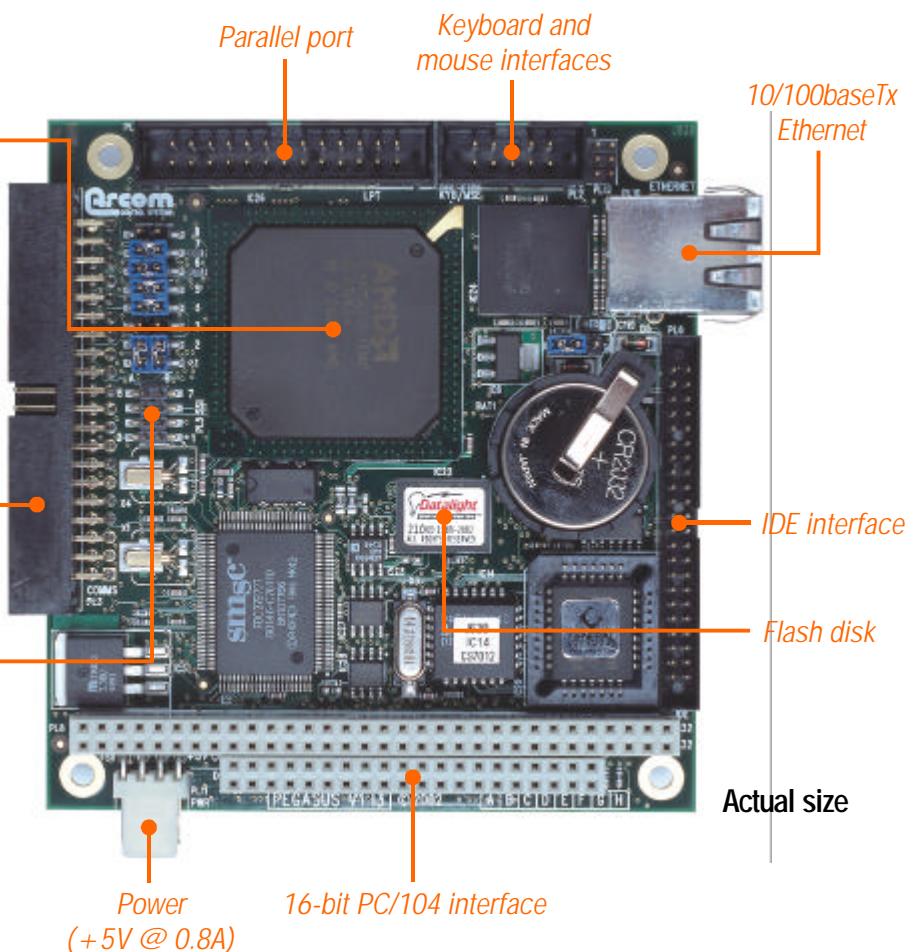
Check our website
www.arcom.com

Development Kits	Embedded Boards	PCs & Enclosures	Industrial Networking	Design & Build

Specifications

Temperature
- Operating -20℃ to +70℃
- Storage -40℃ to +70℃

Humidity
- 10% to 90% RH (non-condensing)

Real Time Clock accuracy
- +/- 1min/month

Software
- Datalight ROM-DOS operating system
- Datalight FlashFX Flash media management

Power requirements
- +5V +/- 5% 800mA (typical), 1.0A (max)

Battery
- 3.0V Lithium 180mAh (CR2032 Coin Cell)
- Maximum discharge current 2µA

Dimensions
- PC/104 compatible format (8/16-bit modules)
- 90.8mm x 90.4mm (3.575" x 3.550")

Weight
- 96 grams

MTBF (based on MIL-HDBK-217F using generic failure rates)
- 150,000 hours

Ordering Information

PEGASUS-133-M16-F8 — Fitted with 16Mbytes DRAM and 8Mbytes Flash
PEGASUS-133-M32-F16 — Fitted with 32Mbytes DRAM and 16Mbytes Flash

Standard product includes PC/104 stack-through connector.
Contact Arcom for non-stack-through and SRAM options.

Typical Applications

Remote data acquisition

Using the PEGASUS, it is now 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 could be used to automatically dial out and alert service personnel that the 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.

Web enabling existing equipment

By integrating the PEGASUS into new or existing hardware, it is possible to remotely interact with the equipment from anywhere in the world and control or monitor its operation from a standard Web browser.

Associated Products

PEGASUS ICE Enclosure

- A fully CE compliant enclosure for the PEGASUS single board computer
- Power input for +5V DC input
- 2 RS-232 Serial ports (D-type 9 way plugs)
- 1 RS-422/485 Serial port (D-type 9 way plug)
- 1 TTL Serial port (D-type 9 way plug)
- 1 Parallel port (D-type 25 way socket)
- RJ45 Ethernet outlet (10/100baseTx)
- Expansion space for a PC/104 card
- Support for internal 2.5" hard drive
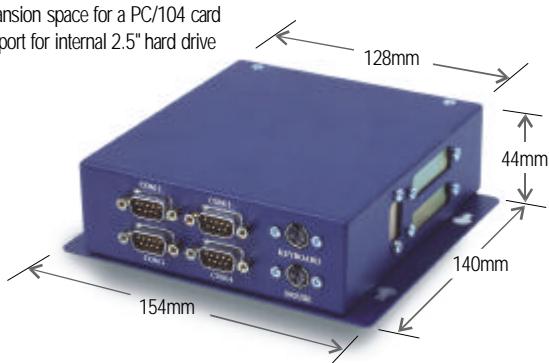
Check our website for more details

PEGASUS Development Kits

Arcom offers rapid application Development Kits for the PEGASUS embedded PC, supporting embedded Linux (with Java technology), Windows CE .NET and ROM-DOS (with Datalight TCP/IP Sockets stack).

Arcom is a **Gold level** partner in the Windows Embedded Partner program

United States
Arcom
7500 West 161st Street
Overland Park, Kansas 66085
Tel: (Toll Free) 888-941-2224
Fax: 913-549-1002
e-mail: us-sales@arcom.com

United Kingdom
Arcom
Clifton Road
Cambridge CB1 7EA, UK
Tel: (Freephone) 0800 411300
Fax: +44 (0)1223 410457
e-mail: euro-sales@arcom.com

France   Tel: 0800 90 84 06
Belgium   Tel: 0800 73192
Germany   Tel: 0130 824 511
Italy   Tel: 0800 790841
Netherlands Tel: 0800 022 11 36

w w w . a r c o m . c o m