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PEGASUS , PC/104 133MHz AMD SC520 embedded PC

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Features

AMD Elan SC520 133MHz processor (Am5x86 CPU)

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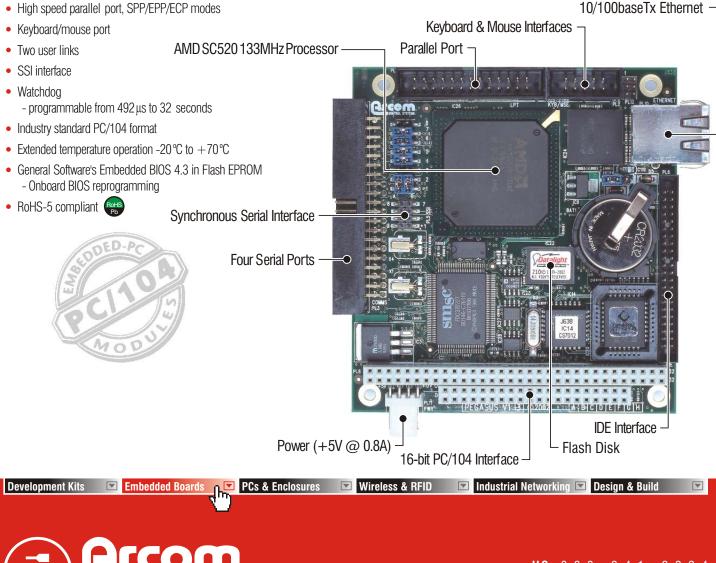
- 16Kbytes unified cache
- Up to 64Mbytes SDRAM
- Up to 16Mbytes Intel[®] Strata Flash - Datalight FlashFX Flash media management
- 128Kbytes SRAM disk battery backed (optional)
- National MacPhyter DP83815 10/100baseTx PCI Ethernet controller

Think Embedded. Think Arcom.

- 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

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.



Specifications

Temperature

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

Humidity

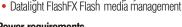
• 10% to 90% RH (non-condensing)

Real Time Clock accuracy

• +/- 1min/month

Software

Datalight ROM-DOS operating system



- 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 PEGASUS-133-M32-F16 Fitted with 16Mbytes D RAM and 8Mbytes Flash Fitted with 32Mbytes D RAM and 16Mbytes Flash

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

RoHS Compliance

The PEGASUS SBC is available as a RoHS-5 compliant option (refer to website for full details). This is designated by a -R5 suffix on the order code. Please contact our Sales team to discuss your requirements.



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.

Associated Products

PEGASUS ICE Enclosure

- A fully CEc ompliant 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
 128mm
 128mm
 44mm
 140mm
 154mm

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).



Check our website for more details

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Specifications are subject to change and do not form part of any contract. All trademarks are recognized.



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