

# PCS-620



## Wireless-ready SBC packed with features

The PCS-620 is wireless-ready (802.11a, 802.11b, 802.11g and others). This Pentium® II class SBC is packed with industrial grade I/O and is compatible with most major operating systems including Windows® 98/2000/CE.net, Linux, QNX® and DOS.

It includes all standard PC functions as well as industrial interfaces. Optimized to operate over a wide temperature range, the PCS-620 provides highly reliable operation, minimizing down times. Any operating system can be installed directly on a CompactFlash™ that plugs directly into the card. Up to 2 GB of programs and data storage can reside on the CompactFlash.

For communication the PCS-620 has a CardBus slot for types I & II wireless cards allowing you to upgrade as the standards change. The CardBus slot can also be used for a modem, extra memory, etc. Two Ethernet® ports use the industry-standard Intel 825591ER 10/100 Base-T Ethernet controllers for full compatibility with all operating systems. There are also four RS-232 serial ports, two of which can support RS-422/485 networks. Multimedia features include the CRT and flatpanel video, two channels of USB and a stereo AC97-compatible audio system.

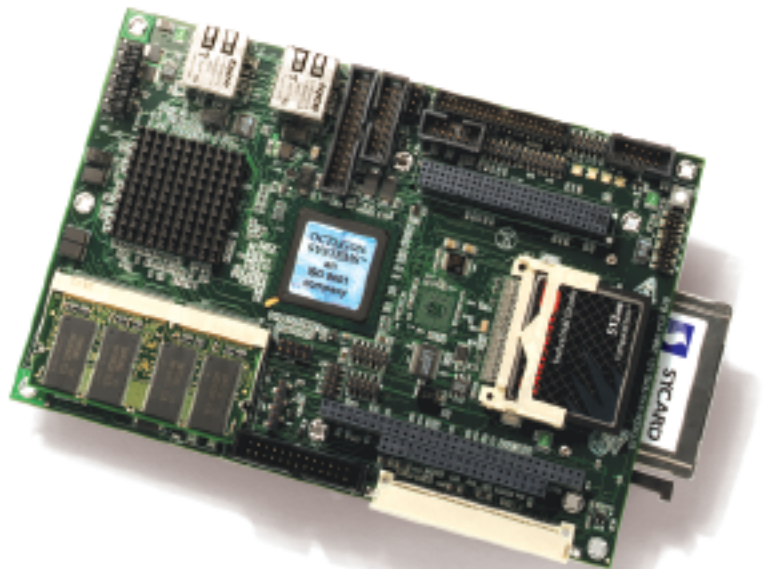
## NEW OS EMBEDDER™ KITS SMALL SBC PLATFORM

### PCS-620 OS Embedder Kits

Reduce the cost of development. Be first to market. Octagon's PCS-620 OS Embedder features Linux 2.4.20, QNX Momentics® 6.2 or Windows CE.net 4.2 operating systems. Octagon is your single hardware and software source, and we offer free technical support. Kits provide everything you need for fast, easy implementation of the operating system of your choice on one of our most versatile SBCs.

#### EACH KIT INCLUDES:

- PCS-620 SBC
- All necessary cables
- 64 MB CompactFlash
- 128 MB SODIMM
- Standard & custom drivers
- Sample programs
- Complete documentation
- Unlimited technical support



The PCS-620 operates from -40° to 70° C, or from -40° to 85° C at lowered clock speed.



Features

PC MOTHERBOARD FUNCTIONS

- CPU: .....AMD GX-1® CPU, 300 MHz, 16K L1 write-back cache
- SDRAM: .....Supports up to 512 MB, SDRAM, SODIMM
- BIOS: .....512K flash with Phoenix BIOS, utilities and diagnostics
- Flash: .....Up to 2 GB CompactFlash, Types I & II. Embedded Linux, DOS, QNX and Windows CE.net available.
- Ethernet: .....Two 10/100 Base-T Ethernet Intel 82551, auto negotiating, half/full duplex.

ON-CARD PERIPHERAL FUNCTIONS

- Serial: .....Four serial ports, 16C550 compatible. Two ports RS-232, latch-up protection. Two ports RS-232/422/485 TTL, latch-up protection.
- Parallel: .....IEEE 1284 compliant, ECP/EPP parallel port.
- EIDE: .....Three EIDE ports: Primary is the CompactFlash socket Secondary supports two HDD/CD-ROM drives.
- USB: .....Two USB ports with OHCI support
- CardBus: .....Interface for type I & II cards.
- Floppy: .....Supports two floppy drives, all standard densities.
- AT: .....Speaker, keyboard and mouse ports
- Audio: .....16-bit AC97 audio compatible. Microphone and stereo line in, stereo line and stereo speaker out.
- Expansion: .....PC/104 and PC/104+ for 16/32-bit expansion cards
- Watchdog: .....Timer jumper programmable from 10 to 60 sec.
- Video: .....CRT/TFT flatpanel support 1280 x 1024 18-bit 3.3V/5V panels 4 MB of video memory
- Digital I/O: .....24 lines, bit programmable, 16 mA source and sink.

The PCS-620 is available in OEM quantities or may be purchased as part of an OS development kit.

Specifications

- Power: .....5V ±5% operation at 1.5A (typ.)
- Extended temperature ranges: -40° to 70° C operating, no ventilation -40° to 85° C at lowered clock speeds
- Shock: .....40g shock, 11 mS, half sine
- Vibration: .....5g random vibration, 10-500 Hz
- Size: .....Small form factor, 5" x 7.5"
- CMOS data: ..... Also backed up in EEPROM; 2048 bytes EEPROM available to user
- Warranty: .....3 years. Made in USA.

Ordering Information

PCS-620 AND ACCESSORIES

- Order #6097 .....PCS-620 CPU card
- Order #6366 .....Cable development kit
- Order #6301 .....128 MB 133 MHz SODIMM
- Order #6302 .....256 MB 133 MHz SODIMM
- Order #6303 .....512 MB 133 MHz SODIMM

PCS-620 OS EMBEDDER KITS

Embedder kits include hardware, OS software, mouse, cables, memory, and documentation.

- Order #6324 .....PCS-620 Linux OS Embedder
- Order #6325 .....PCS-620 OS Embedder with QNX Momentics Eval
- Order #6326 .....PCS-620 Windows CE.net OS Embedder

Flatpanel options available. Please call (303)-430-1500 for details.

SOFTWARE COMPATIBILITY

The PCS-620 is compatible with Windows NT/CE.net, Linux, QNX and other operating systems.