

2050

NEW OS EMBEDDER™ KITS PC/104 PLATFORM



Description

The 2050 is a highly integrated, PC-compatible, single board computer for thin-client and other network-enabled applications. Because of its small size and low power, it is also suited for portable and mobile products.

It is powered by a 5x86 CPU operating at 128 MHz. The 2050 can operate at lower clock rates for reduced power consumption. A 10/100 Ethernet® controller provides high-speed Ethernet access. The two COM ports are jumper-selectable for RS-232/422/485. Up to 32 MB of SMT SDRAM can be installed, eliminating possible vibration issues with a DIMM socket.

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2050 OS Embedder Kits

Reduce the cost of development. Be first to market. Octagon's 2050 OS Embedder kits feature DOS 7.1, Linux 2.4.18 or QNX Momentics® 6.2 operation 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.

EACH KIT INCLUDES:

- 2050 PC/104 SBC
- 2430 video card
- Cables
- 64 MB CompactFlash
- Drivers
- Sample programs
- Documentation
- Unlimited technical support

Add CompactFlash

A CompactFlash can be installed up to 1 GB, eliminating the need for rotating media and allowing even the largest operating systems to be used, as is.



Octagon Systems' highly integrated PC/104 package with CompactFlash™.



Description (continued)

A CompactFlash can be installed up to 1 GB, eliminating the need for rotating media and allowing even the largest operating systems to be used, as is. The CompactFlash can be secured with an anti-vibration/retention device. The flash is bootable and removable. No drivers are needed.

Octagon's 2050 provides AT power, performance and compatibility for space and budget-limited industrial applications. The board will operate "headless," without disks, keyboard or a monitor. The SETUP information is automatically duplicated in EEPROM, so that the system will continue to function during battery depletion and/or replacement.

PC MOTHERBOARD FUNCTIONS

- CPU:Low-power, 5x86 CPU,
128 MHz
- SDRAM:16-32 MB SMT
(32 MB standard)
- BIOS:Phoenix® with fast boot &
industrial extensions
- Firmware:BIOS, DOS 7.1 & diagnostics
- Ethernet:10/100 BASE-T, Intel 82559ER

ON-CARD PERIPHERAL FUNCTIONS

- Serial:COM1 and COM2,
16C550 compatible,
RS-232/422/485
- Parallel:LPT1, bidirectional
- EIDE:Supports two, HDD,
CD-ROM, etc.
- Floppy:Supports one drive, all sizes
- Keyboard:Standard AT keyboard input
- Mouse:Standard AT mouse input
- SpeakerStandard AT speaker port
- Expansion:16-bit PC/104 expansion
- Watchdog:Programmable 0.5-64 seconds
- Temp. sensor:Remotely readable. Reads
ambient to ±3°C over the full
temperature range.

The 2050 is available in OEM quantities or may be purchased as part of an OS development kit.

Specifications

- Power:5V only, 900 mA maximum
- Temp. range:-40° to 85° C, operating
-50° to 90° C, nonoperating
- Shock:40g, 11 mS, half sine, three axes
- Vibration:5g. random, 10-500 Hz
- Size:3.550" x 3.775"
- Warranty:3 years. Made in USA.

Ordering Information

- Order #58672050, 32 MB SDRAM,
manual & utilities on CD-ROM
- Order #5812Development kit
- Order #5905I/O cable
- Order #6225Retainer clips (5) for CompactFlash

2050 OS EMBEDDER KITS

Board support packages include: hardware, software, cables, memory, and documentation.

- Order #62192050 DOS OS Embedder
- Order #60942050 Linux OS Embedder
- Order #61652050 OS Embedder with QNX
Momentics Eval
- Order #6237EZ-Up flatpanel Kit

SOFTWARE COMPATIBILITY

The 2050 is compatible with Win NT®, Win CE®, Linux, QNX® and other operating systems. It is supplied with DOS 7.1 in flash.