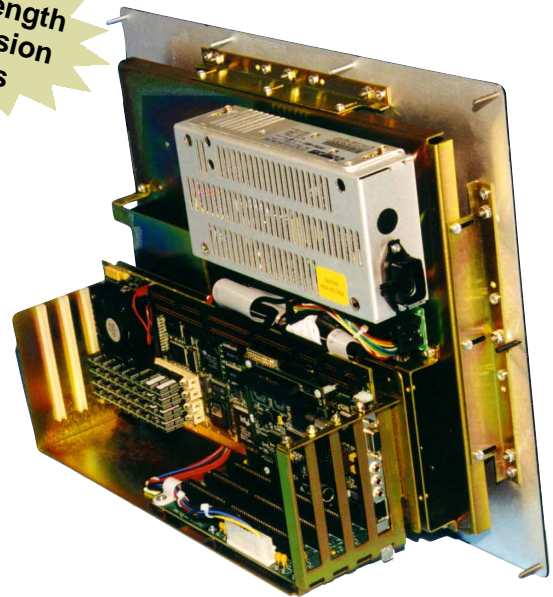


Full-Length
Expansion
Slots



The **Gen-Pak "Eagle"** Industrial Flat Panel Computer incorporates a flexible mechanical design that is optimized for maximum configurability and service. This key feature enables both OEM and system integrators to design their systems secure in the knowledge that all of their cards and peripherals will fit.

Through the use of industrial single board computers, configuration control and long product life cycles are a simple fact of life for **Gen-Pak "Eagle"** customers. All products are designed and manufactured in North America. The flexible architecture minimizes the impact of component obsolescence.

All manner of input devices and touch screens are supported. Customer configurations are a snap and quality is uncompromising.

- ▶ **10"-15" AMTFT Color LCD in VGA / SVGA / XGA Resolutions**
- ▶ **Industrial Pentium® Single Board Computer (North American)**
- ▶ **Up to 233 MHz Pentium® Processor with MMX™**
- ▶ **PCI EIDE and CompactFlash™ Interfaces**
- ▶ **10/100Base-TX Ethernet**
- ▶ **Built-in Hard Disk and Floppy Drives**
- ▶ **AC or DC Supply with Triple Output DC Voltages (+5, +12, and -12 VDC)**
- ▶ **Full-Length Expansion Card Support**
- ▶ **Rugged Aluminum Construction**
- ▶ **Optional PCI / ISA Backplane**
- ▶ **Optional Touch Screens (Capacitive and Resistive)**
- ▶ **Optional Sunlight/Daylight Readable Backlights**
- ▶ **Other Display Sizes and Resolutions Available**

Bus Interface

- PCI Rev. 2.1 compliant, PC104 compatible
- PC/AT ISA bus or standalone operation

CPU Type & Speed

- Intel 133, 133 VRT™, and 166 MHz Pentium® processor
- Intel 200, 233 MHz Pentium® processor with MMX™
- Intel 82430HX chip set

Memory

- DRAM: FPM or EDO
16 to 512 MB using two 72 pin latching SIMMs
- Parity / non-parity and ECC support
- L2 Cache: 512 KB synchronous pipelined burst
- Flash Disk: 2 MB boot block for BIOS field upgrade

Video

- Chips & Tech 69000A graphics processor
- 2 MB, 83 MHz SDRAM video memory
- Pixels/Colors: 640 x 480 x 262K, 800 x 600 x 262K, 1024 x 768 x 262K
- Simultaneous CRT / flat panel support

I/O

- **Serial Ports:** RS-232 (2) with 16 byte FIFO as COM1-4; serial port 2 configurable as RS422/485; w/selectable IRQs
- **USB Ports:** Two
- **Parallel Port:** One bi-directional w/IEEE 1284 protocols
- **Floppy Disk:** Support for two drives (360 KB to 1.44 MB)
- **PCI EIDE:** Support for two EIDE drives; PIO Mode 4, Bus Master IDE or synchronous DMA transfers up to 33 MB/sec.
- **Ethernet:** PCI 10Base-T/100Base-TX (Intel 82559)
- **CompactFlash™ Module:** Optional bootable module interfaces to secondary IDE channel, user upgradeable
- **Alarms:** CPU over-temperature, power failure
- **Miscellaneous:** PS/2 mouse, AT keyboard, V-PORT, PC104 expansion bus, speaker, reset

Power Supply

- AC Input (standard): 80 watts, 84–264 VAC / 47–440 Hz
5V @ 14A, 12V @ 4A, -12V @ 1A
- DC Input (optional): 70 watts, 10–20, 18–36, 36–72 VDC

DISPLAY – Active Matrix TFT Color LCD

	Model 10VH	Model 12SH	Model 12SS	Model 14VH
Display Size (diag.)	10.4" (264 mm)	12.1" (307 mm)	12.1" (307 mm)	13.8" (350 mm)
Viewing Area (W x H)	8.3" x 6.2"	9.7" x 7.3"	9.7" x 7.3"	11.1" x 8.2"
Resolution (pixels)	640 x 480	800 x 600	800 x 600	640 x 480
Colors	262,000	262,000	262,000	262,000
Brightness	300 nits	270 nits	70 nits	180 nits
Contrast Ratio	100:1	300:1	150:1	100:1
Viewing Angle	±70° (H) -70° to 40° (V)	±70° (H) ±55° (V)	±45° (H) -30° to 10° (V)	±45° (H) -30° to 10° (V)
Response Time	20/40 ms (rise/decay)	20/40 ms (rise/decay)	20/30 ms (rise/decay)	30/50 ms (rise/decay)
Backlight MTBF	25,000 hours (typ.)	30,000 hours (typ.)	10,000 hours (min.)	10,000 hours (min.)

The Gen-Pak can be configured with larger LCDs; however, doing so will affect physical dimensions.

DISPLAY – Active Matrix TFT Color LCD

	Model 14XH	Model 14XS	Model 15XH	Model 15XS
Display Size (diag.)	13.8" (350 mm)	13.3" (338 mm)	15.1" (381 mm)	15.1" (381 mm)
Viewing Area (W x H)	11.1" x 8.2"	10.64" x 7.98"	12" x 9"	12" x 9"
Resolution (pixels)	1024 x 768	1024 x 768	1024 x 768	1024 x 768
Colors	64,000*	64,000*	64,000*	64,000*
Brightness	200 nits	100 nits	200 nits	200 nits
Contrast Ratio	300:1	150:1	200:1	200:1
Viewing Angle	±70° (H) -70° to 40° (V)	±55° (H) -55° to 40° (V)	±70° (H) ±60° (V)	±60° (H) ±55° (V)
Response Time	30/50 ms (rise/decay)	30/50 ms (rise/decay)	30/50 ms (rise/decay)	20/30 ms (rise/decay)
Backlight MTBF	10,000 hours (min.)	10,000 hours (min.)	25,000 hours (typ.)	25,000 hours (typ.)

The Gen-Pak can be configured with larger LCDs; however, doing so will affect physical dimensions.

* Number of colors supported simultaneously by onboard video controller; for additional colors (262,000), a separate controller can be purchased.

