Overview

The FieldPAC™ raises the standard of size-efficiency and ruggedness for expandable computers used in field and portable applications. Encased in a deep-drawn, corrosion-proof aluminum enclosure, FieldPAC withstands the daily rigors of transport, setup and operation in demanding conditions.

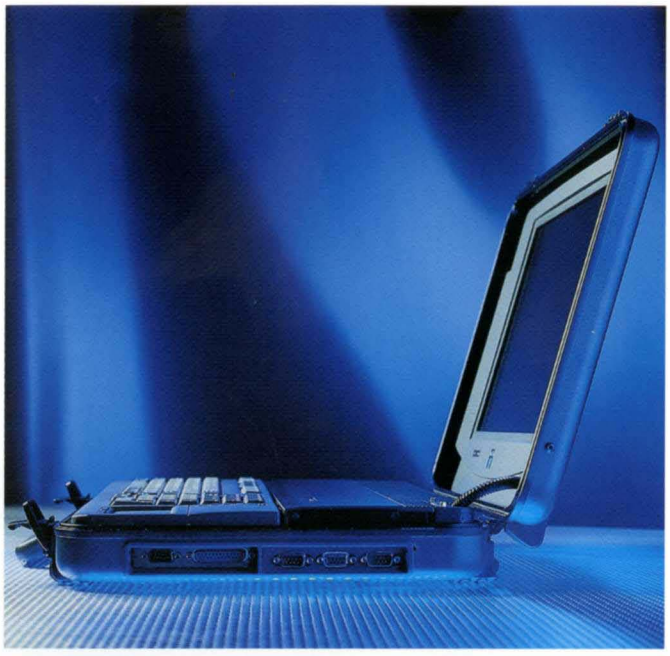
FieldPAC incorporates key features derived from Dolch's decade of experience developing expandable portable industrial computers. Integrated into the ultra-rugged case is an upgradeable Pentium® MMX computer module mated to a huge 14.1" XGA TFT display. This combination provides desktop performance with survivability in field environments.

For add-in application expansion, a user definable full-size ISA or PCI expansion slot is provided, along with two standard PCMCIA/CardBus slots. With substantial compute power, a brilliant display and flexible expansion, the FieldPAC is the platform of choice for network/communications testing, field data acquisition, in-vehicle monitoring and as a technology demonstrator.

Ultra-Rugged Caseworks

FieldPAC's ultra-thin attaché enclosure is formed from two matched case halves, deep-drawn from anti-corrosion-coated 6061 aluminum alloy. The top and bottom halves are aligned by matched, bonded structural extrusions, one with an o-ring seal mated to the other at a compression flange. FieldPAC's internal elements are completely sealed from external environments with the case closed.

- **Rugged All-Metal Attaché Enclosure**
- **Ultra-Thin 3-Inch Thick Form Factor**
- **Huge 14.1" XGA Active Matrix Display**
- **Full-Size ISA or PCI Expansion Slot**
- **Two PCMCIA/CardBus Expansion Slots**
- **Integral CD-ROM, Sound Chip and Speakers**



FieldPAC All-Metal Attaché Rugged Portable Computer

The infinitely adjustable upper display-section pivots on two high-strength constant-torque hinges. Positive-action latches are provided to secure the unit in the closed position. This combination creates an extremely stiff and rugged enclosure that blocks the outside environment when latched. An integral carry handle is provided along with shock absorbing feet for protection both when standing or when operating.

Impact-Protected Hard Disk Drive

To further improve survivability in hostile environments, FieldPAC's HDD is encased in a Sorbathane™ cocoon that absorbs shock and vibration caused by impact, drop and transport. Other key system elements are interlocked together with the internal structure to provide tortional rigidity, strength and impact protection.

Add-In Expansion

FieldPAC offers two types of add-in expansion, ISA/PCI boards and PCMCIA/CardBus PC cards.

FieldPAC's ISA/PCI expansion-bay allows the installation of one full-length, full-height add-in board without disassembling the unit. The expansion bay cover (underneath the detachable keyboard) removes easily for rapid field installation of either an ISA or PCI function board. The add-in board can

FieldPAC™ Rugged Attaché Portable Computer

be of the maximum size as defined by the AT specification, (4.8" x 13.345" x .8") and can even have a "skirt" along its lower half without causing a fit problem. An integral card retention bracket adjusts in two axes to allow precise positioning for retention of all sizes and shapes of add-in boards.

Complementing FieldPAC's expandability are two type II/one type III PC/Cardbus slots. These slots are protected when the cover is closed.

FieldPAC All-Metal Attaché Rugged Portable Computer

Massive XGA Display Screen

FieldPAC is designed to support extremely large viewing areas for multi-window applications. With a display area as large as a 15" CRT monitor, the 14.1" XGA active matrix TFT screen provides more display area than any other portable computer. This display is driven by a PCI-interfaced Chips and Technologies 65550 flat-panel video controller backed by 2 MB VRAM. Connection to the screen is via a high-bandwidth low-radiation PanelLink™ differential interface.

Globe Hopping Versatility

Usable anywhere in the world, FieldPAC accepts power from any 90 to 265 VAC 50-60 Hz source, or from a 12 VDC cigarette lighter outlet (using the included adapter). The system draws a minimal 40 watts power and supports Windows 95 Power Management.

Full-Size Keyboard and Pointer

FieldPAC's generous full-size 104/105 key keyboard is removable and has a two-foot coiled cord that stows in a dedicated cable well. The keyboard's integrated VersaPad™ pointing device responds to finger or stylus input and can be operated with a gloved hand without performance degradation. US and international keyboards are available.

SPECIFICATIONS

CPU TYPE
Pentium MMX 166,200 & 233 MHz.

DRAM
32 MB Std. 64 MB and 128 MB Opt.

EXTERNAL L2 CACHE
512 KB

HARD DISK DRIVE
2.5" 2 GB Std. – 4 GB Opt.

FLOPPY DRIVE
3.5-inch, 1.44 MB

CD-ROM DRIVE
Multi-Speed (24X Min.) CD-ROM

PCMCIA/CardBus SLOTS
Two Type II/One Type III

DISPLAY SYSTEM
14.1" Active Matrix Color TFT – 1024 x 768

EXTERNAL DISPLAY SUPPORT
640 x 480, 800 x 600, and 1024 x 768
Simultaneous External Display at 1024 x 768

INTERFACES
Two RS-232 Ports – 16550 UARTs
Bi-directional, Enhanced Parallel Port

KEYBOARD
AT Compatible, 104/105-Key
Sealed VersaPad Pointing Device

SYSTEM INPUT POWER
90 - 265 VAC, 47 to 63 Hz
12 VDC Via External Adapter

EXPANSION
One Open Slot – Full-Length, Full-Height
User Definable ISA or PCI
PCMCIA/CardBus – Two Type II/One Type III

APPROVALS

Safety	UL, TÜV
Emissions	CE Mark, FCC Class A

OPERATING TEMPERATURE
0° to 50° C

WEIGHT

Basic System	15 lb.	6.8 kg.

DIMENSIONS

Height	3.0"	7.62 cm.(Display Closed)
Height	16.0"	40.60 cm (Display Open)
Depth	13.0"	33.00 cm.
Width	18.00	45.70 cm.

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