



Dolch.



FieldPAC™

ARMORED PORTABLE WITH SLOTS

Armored attaché portable with slots



Removable Keyboard



PCMCIA/CardBus



ISA/PCI Expansion

Rugged All-Metal Portable with Slots

FieldPAC™ raises the standard of size efficiency and ruggedness for portable computers with slots. Encased in a deep drawn aluminum enclosure, FieldPAC withstands the daily rigors of transport, setup and operation in demanding field conditions. For add-in expansion, a user definable full-size shared ISA/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 and telecom testing, field data acquisition, and high technology demonstrations.

Ultra-Rugged Casework

FieldPAC's ultra-thin attaché enclosure is formed using two matched case halves that are deep drawn from corrosion resistant 6061 aluminum. 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. The case has an integral carry handle, and shock absorbing feet are provided for system protection while standing or operating.



Desktop Computing Resources

Representing a whole new genre in mobile computers, the FieldPAC incorporates key features derived from Dolch's decade plus experience in developing expandable industrial portables. Integrated into the ultra-rugged case is an industrial single board computer module and a massive custom made extruded aluminum heatsink capable of supporting all foreseeable Pentium® and Celeron™ CPUs. With a full-length ISA/PCI slot, full-size removable keyboard and a large high resolution display, this combination provides desktop like resources far beyond any ordinary mass market laptop.

Impact Protected Hard Disk Drive

To further improve survivability in hostile environments, FieldPAC's hard drive is encased in a elastomeric cocoon that absorbs shock and vibration. Other key system elements are interlocked together with the internal structure to provide torsional rigidity, strength and impact protection.

Full-Size Card Slot Expansion

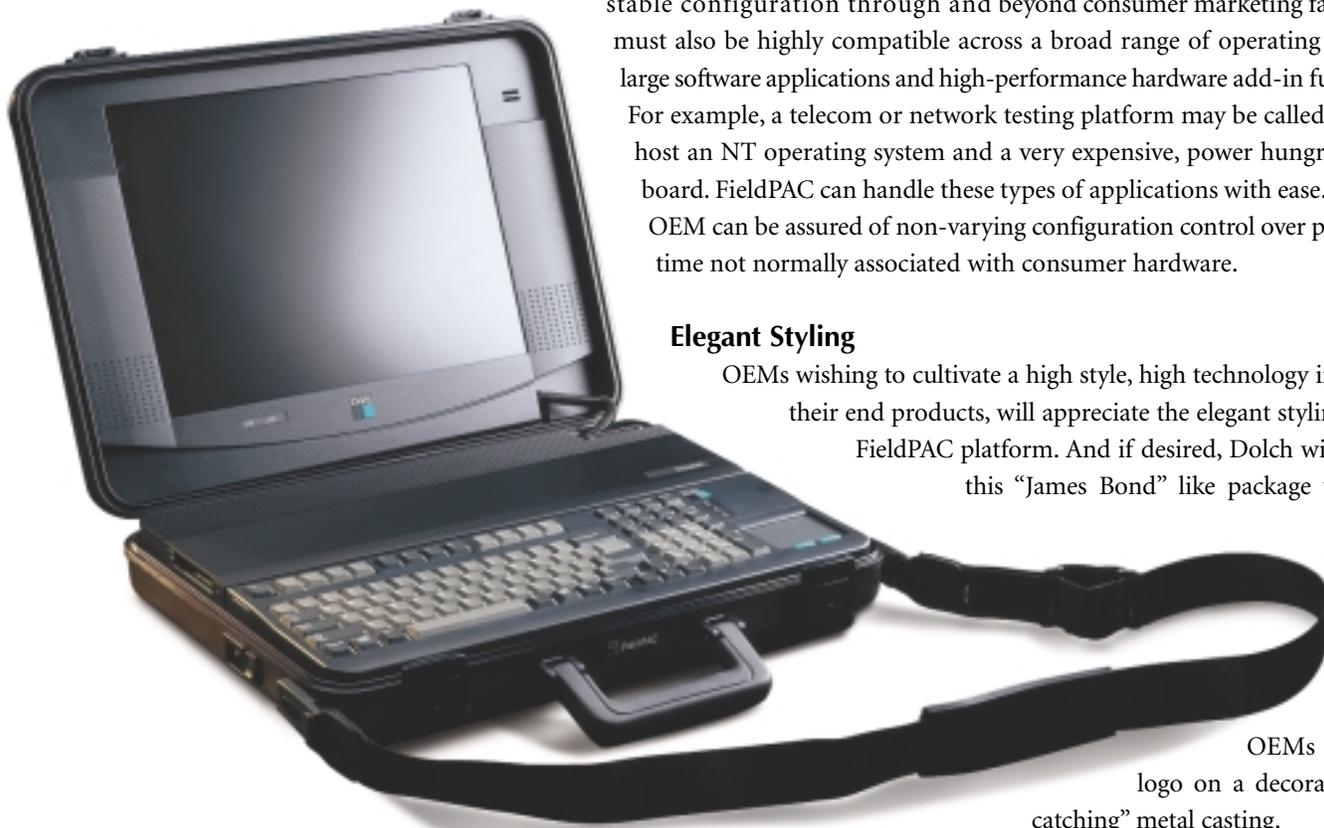
FieldPAC offers two types of add-in expansion, ISA/PCI and PCMCIA/CardBus. The ISA/PCI expansion-bay allows the installation of one full-length, full-height add-in board without disassembling the unit. The expansion bay has been designed for maximum add-in card size (4.8" x 13.345" x 0.8") as defined by the AT specification. The bay also provides clearance for boards with "skirts" (portions encroaching below the card-edge connector). Integral card retention brackets adjust in two axes to allow precise positioning for retention of all sizes and shapes of add-in boards.

Stable Instrumentation Platform

The FieldPAC is based on high performance industrial passive backplane technology. Professional instrumentation platforms live in a world apart from ordinary desktops. Besides a need to be substantially more robust, they must retain a stable configuration through and beyond consumer marketing fads. They must also be highly compatible across a broad range of operating systems, large software applications and high-performance hardware add-in functions. For example, a telecom or network testing platform may be called upon to host an NT operating system and a very expensive, power hungry add-in board. FieldPAC can handle these types of applications with ease. And the OEM can be assured of non-varying configuration control over periods of time not normally associated with consumer hardware.

Elegant Styling

OEMs wishing to cultivate a high style, high technology image for their end products, will appreciate the elegant styling of the FieldPAC platform. And if desired, Dolch will supply this “James Bond” like package with the



OEMs custom logo on a decorative “eye-catching” metal casting.



Massive XGA Display Screen

FieldPAC is designed to support the world’s most sophisticated network and telecom test applications, and very high-end technology demonstrations – all requiring multi window viewing. The 14-inch, high resolution display is driven harder and brighter than most conventional notebook or laptops.

Environmental Specifications		
Stress	Operational	Non-Operational
Thermal High	50° C (122° F)	70° C (158° F)
Thermal Low	0° C (32° F)	-40° C (-40° F)
Humidity (non-condensing)	93% ± 5%	93% ± 5%
Vibration	0.41 Grms @ 3 – 500 Hz	1.2 Grms @ 3 – 500 Hz
Shock 1/2 Sine @ 11 ms	10 G	30 G
Drop and Topple	100 mm – 4 Corners	Up to 36"

World Traveler

The FieldPAC is a full up desktop-like system, designed to go anywhere easily. Its ultra-thin outer shell was sized according to major airline specifications to fit under any airplane seat. Further, its handy set of saddle-bags fits well with today's limitation for carry-on luggage. Slip it over the handle and you only have one piece of luggage. And careful attention to design, and exhaustive testing for vibration and shock resistance, the FieldPAC will be operative when the plane lands, when and where it's needed the most. Usable anywhere in the world, it accepts power from any 90 to 264 VAC, 47-63 Hz source. The system draws minimal power allowing over 50 watts for high performance add-in expansion.



Worldwide Service and Support

For well over a decade, Dolch has been building portable instrumentation platforms for OEMs around the world. From the company's offices on both coasts of the United States, in Canada, Germany, France, and in the United Kingdom, Dolch supports an experienced distribution network worldwide. And because the reason behind the purchase of every Dolch portable is expansion, the company's engineers and technicians are highly familiar with the intricacies of installing cards and high-performance professional power user software. An OEM can be assured of high level support no matter where in the world the product travels.



conditions of travel and remote setup. Over the years, the company has incorporated many mechanical environmental tests and product qualification guidelines into the early phases of product design to ensure that durability of construction is built in. Standards used include IEC 68-1 and 2, MIL-STD-810, NEMA 250, and ISTA Project 2A. And once designed to the industry's highest standards, all Dolch products are built in a modern ISO 9001 certified facility ensuring the best practices in the world.

Specifications	
CPU TYPE	Pentium® MMX, Celeron™
DRAM	64 MB Std. and 128 MB Opt.
EXTERNAL L2 CACHE	Pentium® MMX – 512 KB Celeron™ – 128 KB
HARD DISK DRIVE	2.5" 10 GB Std. – 30 GB Opt.
FLOPPY DISK DRIVE	3.5-inch, 1.44 MB
CD-ROM DRIVE	Multi-Speed CD-ROM
PCMCIA/CARDBUS SLOTS	Two Type II/One Type III
DISPLAY SYSTEM	14.1" Active Matrix Color TFT
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 - 264 VAC – 47 to 63 Hz 50 Watts Available for Expansion
EXPANSION	One Open Slot – Full-Length, Full-Height Shared Slot – ISA/PCI PCMCIA/CardBus – Two Type II/One Type III
APPROVALS	Safety – UL, TÜV – Consult Factory Emissions – CE Mark, FCC Class A
OPERATING TEMPERATURE	0° to 50° C
WEIGHT	Basic System – 17 lb, 7.7 kg
DIMENSIONS	Depth – 3.00 in, 7.62 cm Height – 13.00 in, 33.00 cm Width – 18.00 in, 45.70 cm

Company Information

Dolch Computer Systems, Inc. was founded in 1987 to provide rugged portable platforms for mission critical instrumentation applications. From the beginning, it has been clear that the systems had to keep running even under the harsh handling

ISO 9001

Certified Quality

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