

Shock and Vibration Resistant

The NotePAC is an expandable, ultra-rugged, all-metal notebook computer designed for extreme environments.

It combines a sealed high-strength, cast-alloy case with special components and shock mounting to form a portable platform that can withstand a 15 G shock while operating and still survive. Slip out the removable DataPak™ hard drive and it will withstand 40 Gs while operating.

Additional vibration protection from Isoguard™ mounting technology lets the NotePAC operate continuously in 2 G random vibration environments such as found in rotary winged aircraft and off-road vehicles.

Two Types of Expansion

For applications requiring add-in expansion, the standard NotePAC comes with two PCMCIA type II slots, useable as one type III slot. Also available is a GPS receiver that takes the place of the floppy drive.

For greater add-in capability, you can specify an OmniSlice™ module, expanding the NotePAC by either one ISA AT card or two PC104 modules.

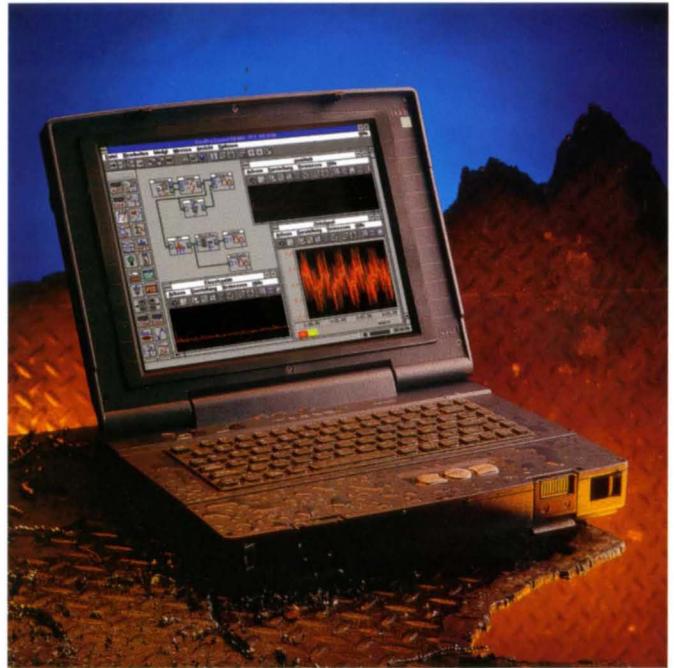
TFT and Sunlight Readable Displays

The NotePAC is available with two displays, a huge 12.1" 800 x 600 pixel active matrix SVGA color display, or for outdoor use, a crisp sunlight readable 640 x 480 TSTN VGA monochrome screen. This superior outdoor screen displays 256 grey shades with an outstanding contrast ratio in direct or diffused sunlight.

Internal and External Power

The NotePAC accepts power from AC or DC sources. It accepts 110/220 VAC, 50/60 Hz and from 12 to 16 VDC. An optional converter extends the DC range to 28 VDC.

- Sealed/Rugged - High-Strength Alloy Casing
- Impervious to Shock and Vibration - 40Gs
- Splash and Drip Proof - Runs in the Rain
- Sealed Envelope - Requires No Fans or Filters
- OmniSlice Expansion Modules
- Add an ISA Card and/or CD-ROM
- Internal Battery Power - up to 1.5 Hours
- Sunlight Readable Display for Outdoor Use



Dolch NotePAC All Weather Ruggedized Notebook

A standard internal 2.4 A/H battery is provided that powers the unit and any expansion cards. The standard unit will operate 1.5 to 2 hours on a fully charged pack. With a 10 watt (max) expansion card it will operate for about one hour. The battery can be swapped in the field for a fully charged pack to continue operation beyond normal single battery capacity.

CPUs and Storage

The standard NotePAC configuration includes a powerful Intel® 486 DX4-100 CPU with Pentium® 100 and 133 MHz processor options. Expand memory from the standard 4 MB up to 32 MB. Also, the NotePAC is Windows 95™ ready with a sealed waterproof integral pointing device and a sealed 86-key, waterproof keyboard.

Storage is provided by a standard removable 810 MB hard drive that can be upgraded to 1.2 GB. All drives are small-form-factor, 2.5" ruggedized units mounted in a DataPak™ shielded metal cartridge that slides into the side of the NotePAC. A standard 3.5" floppy drive is accessed from the opposite side.

NotePAC is the most rugged, compact and environmentally protected notebook computer available. It combines MIL-STD inspired packaging with flexible add-in expansion capability, and is designed to stay alive when other computers die.

TECHNICAL SPECIFICATIONS

<p>PROCESSORS & MEMORY CPU Type 80486DX4-100 MHz Pentium 100 MHz Pentium 133 MHz</p> <p>DRAM 4 MB Standard, 8, 16 and 32 MB Optional</p> <p>HARD DISK DRIVE 2.5" 810 MB Standard, 1.2 GB Optional</p> <p>FLOPPY DRIVE 3.5-inch, 1.44 MB</p> <p>OPTIONAL DRIVES Multispeed CD-ROM</p> <p>PCMCIA SLOTS Two Type II/One Type III</p> <p>DISPLAY SYSTEMS Display Types 12.1" Active Matrix Color TFT, SVGA 800 x 600 9.5" Sunlight Readable TSTN, VGA 640 X 480</p> <p>Video Controller 32-bit Local Bus Video Controller 1 MB Memory</p> <p>External Display Support (with expansion bar) 640 x 480, 800 x 600, 1024 x 768 Simultaneous External Display at 800 x 600</p> <p>GENERAL Software Compatibility MS-DOS®, Windows™ (all versions), Windows NT™, OS/2®, and, SCO® UNIX®</p> <p>Serial Interface Two RS-232 Ports</p> <p>Parallel Ports Bi-directional, Enhanced Parallel Port</p> <p>Keyboard & Pointing Device AT Compatible, 86-key Key Switches Industrial Silicon Rubber Pointing Device Sealed Waterproof, MicroModule</p> <p>ELECTRICAL System Input Input Voltage: 12 to 16 Volts DC 110/220 VAC, +/- 10% 47 to 63 Hz AutoSensing/Auto Switching</p> <p>Main Battery Internal Ni-MH - 12V, 2.4 A/H (~100 minute operation w/o OmniSlice)</p> <p>Power Consumption Standard Unit: 20 W Max Unit with OmniSlice: 30 W Max</p>	<p>Power Management Doze, Sleep, Suspend</p> <p>Optional STATpack™ DC Power Pack 15 A/H Rechargeable Battery Pack (yields up to 10 hours operation)</p> <p>MECHANICAL Construction Machined Aluminum Alloy Casting Anti-corrosion Coating</p> <p>Display Panel 180 (tilting panel, anti-blacklash hinges)</p> <p>Dimensions (standard unit) Height 3.0", 7.5 cm (display closed) Height 13.1", 33.3 cm (display open) Depth 10.4", 26.4 cm Width 13.4", 34.0 cm</p> <p>Dimensions (with OmniSlice installed) Height 4.1", 10.5 cm (display closed) Height 14.5", 36.8 cm (display open) Depth 10.4", 26.4 cm Width 13.4", 34.0 cm</p> <p>Weight Standard System 14.3 Lb 6.5 Kg Unit with OmniSlice 16.9 Lb 7.7 Kg</p> <p>EXPANSION PCMCIA 2 Type II/One Type III</p> <p>OmniSlice Standard Slice: 1 3/4 Length AT Card 2 PC 104 Cards 1 CD, 1 1/2 Length AT</p> <p>Expansion Bar Provides the Following Interface Signals: Com 3 & 4 on Male DB9 Connectors Parallel Port on Female DB25 Connector Keyboard and Mouse on Female PS/2 Connectors External CRT on Male DB15 Connector SCSI on SCSI Female Connector</p> <p>ENVIRONMENTAL Enclosure Class IEC 529 NEMA Operating IP66 NEMA 4 Non-Operating IP66 NEMA 4</p> <p>Temperature Operating 0° to 50° C (32° to 122° F) Ext. Operating -20° to 50° C (-4° to 122° F) (special order only) Non-Operating -40° to 70° C (-4° to 158° F)</p> <p>Rain Resistance MIL-STD-810E Method 506.3, Procedure I/II NEMA 4 Method 6.4.1</p> <p>Dust Resistance NEMA 4 Method 6.5.1.1</p> <p>Humidity 5%-95% (non-condensing)</p> <p>Salt Fog 5% Solution, 35° C, 48 Hr</p>	<p>ENVIRONMENTAL Shock IEC 68-2-27 Operating 15G 11ms 1/2 sine MIL-STD-810E Par. 516.4 Procedure I Non-Operating 50 G 11 ms 1/2 sine</p> <p>Drop IEC 68-2-32 Free Drop 36", Free Height Drop to Floor 48", 26 Drops in Case per MIL-STD-810E Par 516.4 Procedure IV Bench Handling 4", 4 Unprotected Drops per MIL-T-28800E Par. 3.7.5.3. and 4.5.5.4.3</p> <p>Vibration IEC 68-2-6 Operating 10-55 Hz, 0.2 mm 55-500 Hz, 1.2 G Non-Operating 10-55 Hz 0.3 mm 55-500 Hz, 2.0 G</p> <p>Altitude Operating High Altitude 15,000 Ft 4615 Mtr (1 hour) Low Altitude -1,000 Ft 308 Mtr Non-Operating High Altitude 40,000 Ft 12308 Mtr (2 hours) Low Altitude -1500 Ft -462 Mtr</p> <p>ELECTROMAGNETIC COMPATIBILITY Radiation FCC Part 15 Subpart B, Class B</p> <p>Static Discharge IEC 801-2, Level 4 DIN VDE 0843-2</p> <p>Contact Discharge 8 KV Air Discharge 15 KV Contact/Air Discharge 15/20 KV</p> <p>Voltage Tolerances DIN VDE 0161</p> <p>Pulses IEC 801-5 Level 4 DIN VDE 0843-5</p> <p>Transient Bursts PS/Data/I-O Lines IEC-801-4 Level 4 DIN VDE 0843-4</p> <p>EM Fields IEC-801-3 Level 3 DIN VDE 0843-3</p> <p>SAFETY/CONFORMANCE Approvals CE Mark, UL, CSA, TÜV IEC 950</p> <p>RELIABILITY/MAINTAINABILITY MTBF 10,000 Hrs MTTR 90 Minutes</p>
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Corporate Headquarters

Dolch Computer Systems, Inc.
3178 Laurelview Court
Fremont, CA 94538
TEL: (510) 661.2220
FAX: (510) 490.2360
Web Site: <http://www.dolch.com>

United Kingdom Operation

Dolch Computer Systems (U.K.) Ltd.
14 Cochran Close, Crownhill
Milton Keynes, MK8 0AJ, UK
TEL: (+44) 1908.263.622
FAX: (+44) 1908.263.220
E-MAIL: sales@dolch.co.uk

German Operation

Dolch Computer Systems GmbH
Haidgraben 1C
D-85521 Ottobrunn
Germany
TEL: (+49) 89.609.7848
FAX: (+49) 89.608.3856



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