

DuraPAC™ is a fully sealed, small and light industrial portable computer designed for use in extremely harsh environments. DuraPAC is designed to survive industries' "lethal zones" – applications where laptops and conventional portables die. This ultra-tough portable was developed to take the every day punishment industrial working tools are exposed to. It was designed to survive situations like remote field service, on-site maintenance, flightline systems analysis, geophysical exploration, shipboard exposure, factory floor environments, deployed military C³I, and more.

Overview

For field ruggedness, DuraPAC's case is formed from corrosion protected aluminum, designed to shield the internal components from up to 50 Gs of shock. For environmental protection, DuraPAC is weatherproof and NEMA/IP rated, secured from the elements by a series of "O" ring seals and custom closures that protect it from the rigors of the outside world.

Serving outdoor applications, all exposed connectors and switches are NEMA4/IP66 rated. Further, the enclosure is wrapped in a formed, woven "Flak Jacket". This ultratough ExoSkin™ provides additional impact protection and is scratch resistant. The DuraPAC is intended to operate in outdoor environments where rain, blowing dust or snow are common occurrences.

The fold-up keyboard protects the 12.1" hi-bright SVGA TFT display. This 210-nit active matrix screen provides high readability even in bright ambient light conditions. Add-in expansion is via two PCMCIA type II/one type III slots or two PC/104 modules. Worldwide functionality is assured by 110/220 VAC augmented by an external 12 VDC adapter.

- Fully Sealed Case Dust, Drip & Rain Proof
- Shock Proof 30 G Op./50 G Non-Op.
- Drop Proof 36" Free Drop (~1 Meter)
- Add-in Expansion PCMCIA and PC/104
- Hi-Bright TFT Screen 12.1" SVGA
- Wide Temperature Range 0° to 50°C



DuraPAC Ultra-Rugged Environmentally Sealed Computer

Ultra-Rugged Design

Unlike common laptops, the DuraPAC has an all-metal case surrounded by a shock-absorbent outer skin, a "Flak Jacket", so called for its uncompromising protection from impact, damaging vibration and abrasion. Like a padded waterproof glove, DuraPAC's proprietary engineered ExoSkin conforms snugly to the case contours, soaking-up hazardous impact, shock and vibration.

A three-layer design, the ExoSkin has a force-absorbing component at its center, bonded to a coarse-weave abrasion-resistant outer layer. A resilient inner layer conforms to Dura-PAC's metal case. The tough metal enclosure allied with its Flak Jacket forms a combination that allows the DuraPAC to survive a three-foot drop to concrete. DuraPAC's ExoSkin resists scrapes, scratches and dents, and provides water and UV resistance.

Add-In Expansion

The DuraPAC provides two expansion options. First, two type II/one type III PCMCIA slots are provided. These slots are positioned at the rear of the unit and are protected by a sealed door that is easily opened for access. As the two type II slots are co-located in the same opening, one type III card may be installed instead of two type II cards.

DURAPACTM ULTRA-RUGGED SEALED COMPUTER

Should the user desire PC/104 compatibility, the PCMCIA capability can be deleted and replaced with one or two PC/104 modules. Blank connector openings and uncommitted connectors are provided for I/O. Special mechanical configurations are also available for customer-specific applications.

Environmental-Proof Keyboard

DuraPAC's keyboard is a removable, completely sealed, AT compatible keyboard. It features 86 full-size keycaps, 12 function keys, and dedicated cursor keys. It combines a full-size

ASCII layout with an integral centermounted sealed pointing device, ensuring Windows® compatibility. The keyboard is designed for the industrial user needing NEMA 4 protection but wanting the quality touch and feel of an office keyboard. It has a 24-inch coiled cord that plugs-in to the front panel via a waterproof connector assembly. The keyboard rests in a compliant cavity in DuraPAC's ExoSkin. This cavity forms a hinged panel that cradles the keyboard both when open, in operation and when closed. The keyboard can be removed from its cavity for laptop use.

Universal Power Adaptability

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

Sunlight Readable Displays

DuraPAC's standard display is a high-brightness 12.1" SVGA 800 x 600 active matrix TFT screen with 210-nit brightness.

This display has an ultra-wide viewing angle and is far brighter than common laptop screens, showing greater clarity. Optionally, a super-high-bright sunlightreadable 12.1" screen is available that outputs 800-nits. For reference, standard laptop screens have brightness ratings of about 100 to 150-nits. They are almost unreadable when used outside. Dolch's super high-bright system combines a high-power backlight with continuous dimming control — complete control from bright sun to a dark nightime environments.



DuraPAC Ultra-Rugged Environmentally Sealed Computer

SPECIFICATIONS

CPU TYPE

Pentium® MMX, 166, 200, 233 MHz

DRAM

16 MB Standard - 32 and 64 MB opt.

HARD DISK DRIVE

2.5" 2 GB std. - 4 GB opt.

OPTIONAL EXTERNAL PERIPHERALS

Multi-speed Parallel Port CD-ROM 16X (min) 3.5" 1.44 MB FDD

EXPANSION

Two Type II/One Type III PCMCIA Slots or 2 PC/104 Modules

DISPLAY TYPES

12.1" AM TFT – 800x600 SVGA 210 nit 12.1" AM TFT – 800x600 SVGA 800 nit w/Dimmer

INTERFACES

Four RS-232 Ports (One RS232/RS422/RS485) Bi-directional, Enhanced Parallel Port

SYSTEM INPUT POWER

90 - 265 VAC, 47 to 63 Hz-External 12 VDC Adapter

PHYSICAL

 Dimensions

 Height
 11.0"
 27.94 cm.

 Depth
 4.0"
 10.16 cm.

 Width
 15.0"
 38.1 cm.

 Weight
 12.5 lb
 5.68 Kg

KEYBOARD & POINTING DEVICE

AT Compatible, 86-key

ENVIRONMENTAL

Operating Temperature Operating Shock 3 Transport Shock 5 Operating Vibration 1

0° to 50° C 30 G 11 ms 1/2 sine 50 G 11 ms 1/2 sine 10-55 Hz, 0.3 mm 55-500 Hz, 2.0 G

APPROVALS

Safety Emissions

UL, TÜV CE Mark, FCC Class A

Corporate Headquarters

Dolch Computer Systems, Inc. 3178 Laurelview Court Fremont, CA 94538 Tel: 510.661.2220 Fax: 510.490.8345 Web Site: http://www.dolch.com

U.K. Operations

Dolch Computer Systems UK (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 Operations

Dolch Computer Systems GmbH Haidgraben 1B 85521 Ottobrunn, Germany Tel: +49.89 608.6860 Fax: +49.89 608.6880

E-mail: gmbh@dolch.com

Mid Atlantic Operations

Dolch Computer Systems, Inc. 7484 Candlewood Rd. Suite S Hanover, MD 21076 Tel: (Tech. Center) 410.691.9628 Tel: (Fed. Programs) 410.691.9075 Fax: 410.691.9098

