

PDU

Ultra-compact, low-power consuming computing unit for the dismounted soldier



Elbit Systems' Personal Digital Unit (PDU) is the core of the DOMINATOR® solution. This wearable powerful computing unit serves as the dismounted soldier's digital toolkit. The PDU provides access to C4I applications and integrates the soldier's radio, display and all other DOMINATOR® components.

Fully customizable, the PDU's open architecture is based on the Intel® Atom™ processor and supports multiple operating systems. The PDU is fully integrated with Elbit Systems' TORC2H® command and control application, managing all phases of combat including planning, briefing, execution and debriefing. Unique design with Network Co-Processor for hosting and offloading network components and radio interface management.

The PDU's ultra-compact, lightweight and low-power design is specifically tailored to battle conditions. Manufactured and qualified to MIL-STD-461E and MIL-STD-810F, the PDU's all-weather design is field tested for extreme temperatures, moisture, dust, vibration, drop and shock resistance.



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Highlights

- Core of the DOMINATOR® solution
- Digital toolkit for the dismounted soldier
- Ultra-compact, lightweight and low-power design
- Ruggedized, compliant with MIL specifications
- Open architecture with support for multiple operating systems
- Fully integrated with TORC²H®
- NCW ready



Technical Specifications

Computer

- CPU: Intel® Atom™ Processor 1.6GHz
- Co-Processor: ARM9
- 64GB Solid State Drive (upgradeable)
- RAM: 1024MB DDR2 SDRAM

Interfaces

- USB 2.0 x 4
- 10/100 Base T Ethernet
- PAL/NTSC video input
- Serial: SMBus, RS232
- Headphones / speaker output
- Microphone line-in (optional)
- Digital radio

Display support

- Dual display supported
- 24bpp single-channel LVDS output
- Progressive RGBHV output (VGA)

Physical characteristics

- Dimensions: 32 mm x 107 mm x 105 mm
- Weight: 450 g

Environmental

- Operating temperature: -32° to +55°C
- Storage temperature: -40° to +71°C
- Compliant with MIL-STD 810F
- IP67 rated

Electromagnetic compatibility

- Compliant with MIL-STD 461E



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