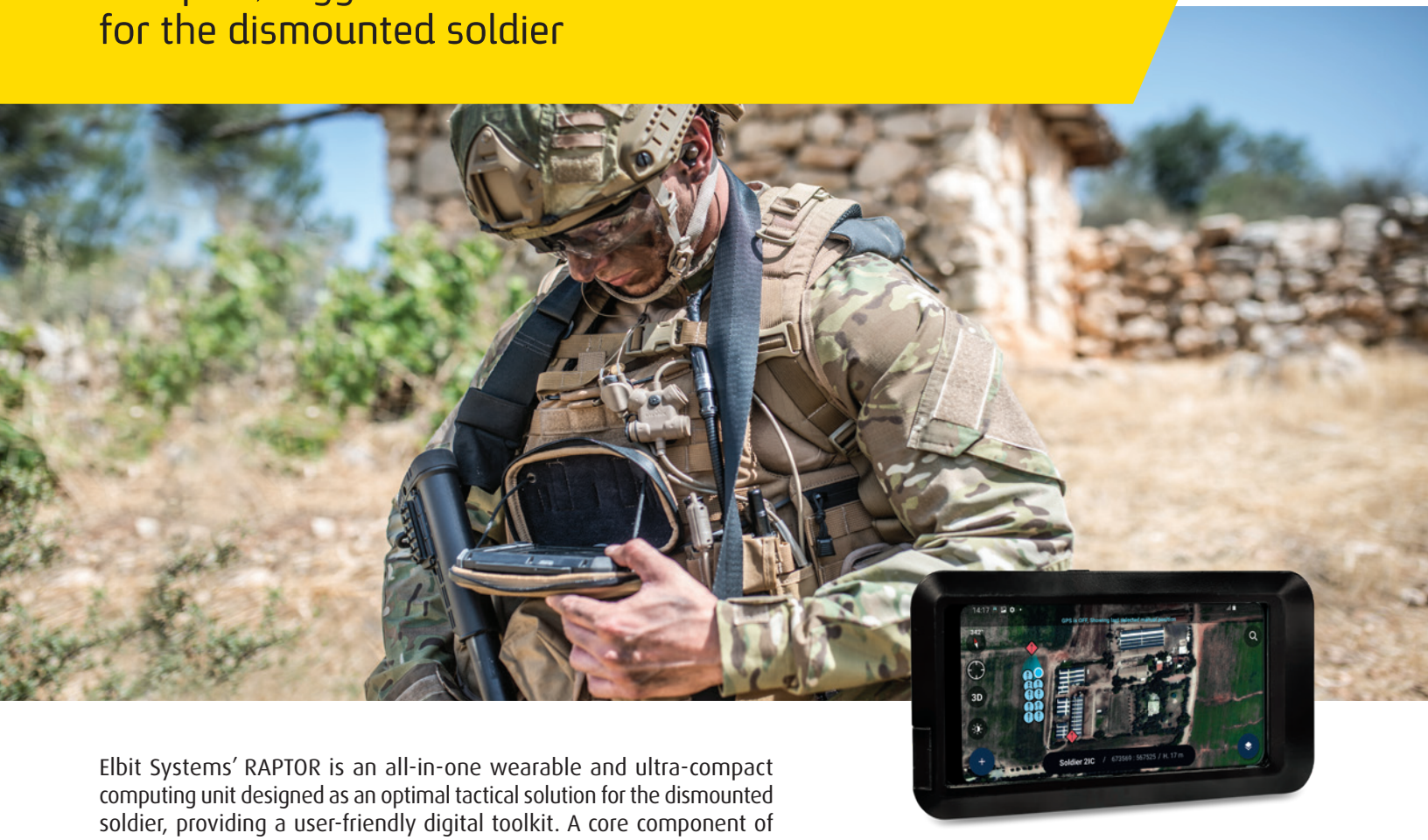
RAPTOR™

Compact, rugged all-in-one tactical solution for the dismounted soldier



Elbit Systems' RAPTOR is an all-in-one wearable and ultra-compact computing unit designed as an optimal tactical solution for the dismounted soldier, providing a user-friendly digital toolkit. A core component of Elbit Systems' Torch-X Dismounted solutions, RAPTOR enables forces to dominate the battlefield by empowering dismounted soldiers with full situational awareness through net-centric integrated information systems.

High-performance tactical solution in a single unit – RAPTOR features open architecture computing and communications capabilities housed in a single wearable lightweight device, enabling the soldier to view a real-time common operational picture on an advanced display, send and receive live target and mission data, and manage all phases of combat including planning, briefing, execution, and debriefing.

Fully integrated with tactical networks – RAPTOR hosts Elbit Systems' command and control application (C^2) and integrates with the soldier's personal radio, supporting secure communications and uninterrupted access to information. The device runs on the latest Android operating system and incorporates a variety of standard interfaces to facilitate communications with radios and sensors. Raptor sensors include digital compass, accelerometers, and an ambient light sensor for maximal power efficiency management. The basic software incorporates all required API and kernel add-ons.

Elbit Systems™
C4I and Cyber

RAPTOR™

Compact, rugged all-in-one tactical solution for the dismounted soldier

Optimal design and user experience (UX) for dismounted forces – RAPTOR's small dimensions, lightweight, and ergonomic design are tailored to battlefield conditions, allowing for ease of use without interfering with the soldier's fighting ability. The military-standard RAPTOR is supplied in a smartphone format (Samsung Galaxy S2x). The RAPTOR is designed for future growth – enabling easy replacement of smartphone and cover box without changing the electronic box that holds the mainboard. The rugged, sealed, low-power design is drop and shock resistant and can withstand harsh environmental and electromagnetic compatibility conditions, including moisture, sealing, dust, and vibration.

Key Features

- Lightweight, wearable computer
- All-in-one device includes advanced multi-touch display, computing, and communications components
- Built-in GPS, IMU and digital compass
- Sunlight readable display
- Highly integrated with C^2 networks and most handheld radios
- Can host a GFE security card – Sleeve Extension Board (SXB) to monitor USB Radio interface
- Separate electronic box with sleeve board and smartphone cover box; easily disassembled to enable maintenance and replacement
- Supports Android C^2 application
- Support communication controller application – Tiger™
- Low-power design
- Manufactured and qualified to MIL-STD 461F and MIL-STD 810G

Operational Benefits

- Supports a range of missions and applications
- Designed for future growth of Samsung smartphones
- Real-time situational awareness
- Intuitive Android-based operation
- Rugged and tailored to withstand harsh environmental conditions
- Ideal for widespread deployment

Display

- Dynamic AMOLED 2X, 120Hz, HDR10+, 1300 nits
- Multi-touch
- Size: 15.748 mm
- Resolution: 1080 x 2400 pixels
- Protection: Corning Gorilla Victus

Dimensions

- Dimensions: 183 x 90 x 46 mm
- Weight: 590 gr

Environmental

- Operating temperature: -32° to +45°C (ROM-dependent)
- Non-operating temperature: -32° to +71°C
- Compliant with MIL-STD 810G and IP68

Electromagnetic compatibility

- Compliant with MIL-STD 461F

Technical Specifications

Computer and peripherals

- CPU: Octa-core (1x2.9 GHz Cortex-X1 & 3x2.80 GHz Cortex-A78 & 4x2.2 GHz Cortex- A55)
- Storage: 128 GB, 8GB RAM

Interfaces

- 2x USB 2.0 Host and 2x USB 2.0 device
- 1x RS-232 asynchronous
- 3x GPIOs

Power

- External power input 7.5V to 30VDC
- Power consumption 10W max.

Elbit Systems C⁴I and Cyber
2 H'amachshev St., Netanya 4250712, Israel
E-mail: C4icyber.info@elbitsystems.com www.elbitsystems.com

Follow us on