

GENERAL DYNAMICS Tadpole Topaz Military-Rugged Mobile Computer

Security, Flexibility and Speed in the Toughest Tactical Environments

Designed for anywhere, anytime mission-critical computing, the Tadpole TOPAZ notebook represents the state-of-the-art in rugged mobile computers. It differentiates itself in four key areas – performance, display and connectivity. It is as powerful and rugged as it is ergonomic and portable. Designed to meet the U.S. Army Qualification testing,

Tadpole delivers a lightweight, military-rugged, high-performance mobile computer at a COTS price.



Performance - The Tadpole TOPAZ is designed for the power user who needs performance and connectivity in a rugged notebook form factor. It uses Intel Dual Core CPU's with up to 8GB of high speed memory. High performance discrete graphic upgrades support compute and graphics-intensive applications. It also provides real time 3-D imagery, airspace mapping and visualization of the battlefield; workstation class applications; and mobile server performance for deployable server applications.

Display - The Tadpole TOPAZ 15.1" display with DynaVue™ technology enables optimum viewing in bright light without sacrificing battery life or processing performance. The display uses a conventional 4:3 aspect ratio display to support applications designed for this form factor. This enables users to view images using the maximum area of screen real estate.

Connectivity - Recognizing that both flexibility and security are critical to mission success, the Tadpole TOPAZ notebook supports a wide range of I/O options to connect with peripheral equipment and devices. An integrated Smart Card reader allows controlled access to sensitive computer information, and three segregated Ethernet ports enable authorized military personnel to connect to multiple networks without compromising proprietary applications or protected data. Synchronous and asynchronous serial ports support connectivity to a wide range of communications equipment. 802.11 a/b/g/n wireless capability is an option.

Key Features

2.53GHz Intel® Core™ 2 Duo processor T9400

Multitask processing

High performance, high definition graphics

Up to 8GB of DDR3 memory for 64-bit applications

New sunlight-viewable DynaVue® display technology

MIL-STD-810F certified

Fully IP54 certified against dust and water intrusion

MIL-STD-461E compliant for electromagnetic emission and susceptibility

Designed to operate in extreme environmental conditions - comprised of magnesium alloy case with rubber over-moulding

Delivers superior computing performance at competitive pricing

Runs critical Windows®, Linux™ and Solaris™ applications

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Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience

Tadpole Topaz Specifications



FUNCTIONAL

Processor	Intel® Core™ 2 Duo T9400 2.53 GHz processor
Memory	Up to 8GB SDRAM (DDR3-1067MHz)
Cache	6MB
Storage	250GB/500GB hard disk drive (HDD), Shock-mounted flex-connect, removable. 64GB solid state drive
Display	15.1" 1400 x 1050 SXGA sunlight viewable DynaVue® LCD Exceeds MIL-STD-3009 outdoor contrast ratio
Keyboard	Full-sized, 87-key sealed keyboard Black keyboard, NiteVue™ glow-in-the-dark, backlit or rubberized backlit keyboard Capacitive touchpad Resistive Touchscreen LCD (Optional)
I/O Ports	USB 2.0 (x4) VGA (15-pin) x1 RS232/485/422 Asynchronous Serial (9-pin) x1 RS232 Asynchronous Serial (25-pin) x1 RS232 Synchronous Serial (25-pin) x1 10/100/1000 Ethernet (RJ-45) x3 56K modem (RJ-11) Headphones/speaker (mini-jack) Microphone (mini-jack) DC-in Docking port
Audio System	Intel® high-definition audio compliant, Integrated speakers and microphone, Keyboard volume and mute controls
Integrated Communications Options	WLAN: Integrated 802.11a/b/g/n wireless (Optional)
Operating System	Windows® 7 Professional (32-bit/64-bit) Windows® XP and Windows® Vista downgrade options (via custom image) Solaris 10 Red Hat Enterprise Linux 5 (32-bit/64-bit)

ENVIRONMENTAL (MIL-STD-810F)

Temperature	Operating temperature 0°F (-18°C) to +125° (52°C)
Rain/Dust	Water/Dust tight (IP54/IEC 60529)
Vibration	Meets and exceeds MIL-STD 810F Tested to stringent helicopter vibration profile
Drop	3 drops on each face from 3 ft. in transit case

PHYSICAL

Dimensions	Width: 15.0" Depth: 12.4" Height: 2.4"
Weight	11 lbs Basic configuration
Chassis	Die-cast magnesium chassis

ELECTRICAL

Power	9-cell 7200 mA(H) (79.9W) Lithium Ion main battery
OPTIONS	
DC Input	18V - 32VDC

Information in this document is subject to change without notice.



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