

Portable User Data Terminal (PUDT)

Key Features

- High-performance StrongARM™ RISC processor
- Fully sunlight readable half-size VGA touch screen display
- Built tough to survive in the harshest operational environments
- Dual power PCMCIA interface
- Runs Microsoft Windows® Embedded CE3



L-3 Communications leads the way in the ruggedized computer industry with its new Portable User Data Terminal (PUDT). The PUDT is a specially ruggedized PDA offering a half-sized VGA display (640 x 240 pixels) and the ability to enable multiple applications using various customer-determined PCMCIA devices. Selected for use by the U.K. Bowman program, the PUDT easily supports a wide array of battlefield applications where size, weight, and extreme environmental protection are vital factors. The PUDT's rugged design features, significantly larger display, processing power and ease of operation all combine to make it an ideal choice for use

as a handheld digital platform in extreme tactical conditions. The PUDT has primarily been created for employment by ground and naval artillery forward observers, air control party precision targeting teams, long range reconnaissance and surveillance patrols, combat communications teams, and as a PIM or situational awareness tool for the dismounted soldier or small unit leader. Because of its small form factor and durability, the PUDT can also serve in a variety of law enforcement and public safety roles, or be used to fulfill remote medical, transportation and supply & maintenance computing requirements.

Portable User Data Terminal (PUDT)

Functional

Processor	High-performance 206 MHz Intel 32-Bit StrongARM™ SA-1110 RISC processor and the SA-1111 StrongARM companion chip. Provides the performance of 250 (Dhrystone 2.1) MIPS @ 206 MHz
Display	6.5-inch diagonal color transfective LCD with backlight for viewing in low light levels. 640 x 240 pixel resolution with 256 colors.
Memory	32 MB of Flash memory, 64 MB of DRAM memory
Mass Storage	CFII CompactFlash™ card connector; accepts all CompactFlash cards, or 1 GB capacity IBM Microdrive™
Keyboard	Virtual QWERTY on-screen keyboard operated by an included stylus
Pointing Device	Touchscreen, can be used with fingertip or stylus
External Ports	- Two EIA-232 (COM1, 3) serial ports - One EIA-423 (COM2) - USB 1.1 device (slave) USB Host
PCMCIA Slots	One Type I/II PCMCIA card (3.3 or 5 V)
Reliability	8,000+ hours MTBF (ground mobile)
Maintainability	Predicted MTTR of 0.5 hours or less

OTHER

Covert Operations	Enabled with a single button push
Function Switches	Sixteen (16) programmable
Indicators	Amber LED for battery function, LCD heater and Built-in Test

Environmental (MIL-STD-810E)

Temperature	- Operating: -20° to 55°C - Nonoperating: -40° to 65°C
Shock	36" drop as per MIL-STD-810 E

Altitude	To 15,000 feet MSL per MIL-STD-810E
Humidity	- Operating: 5% to 95% relative humidity - Nonoperating: 5% to 95% relative humidity
Sand/Dust	40 MPH +/-3 MPH for 90 minutes
Rain	4.0" rain per hour with 40 MPH wind for 30 minutes
Salt/Fog	MIL-STD-810E compliant
Immersion	Submersible to 1 meter of water for 2 hours
NBC Agents	Per FM3-5 and MIL-STD-1472C; CARC-painted
Vibration	Tracked vehicle operation per MIL-STD-810 E, when mounted on optional installation kit
EMI	MIL-STD-461E, Para.4

Physical

Weight	2.65 lb (1.2 kg) with standard battery
Dimensions	9.0" W, 4.65" H, 1.77" D (229mm x 118mm x 45mm)
Electrical	- External 11~13 VDC power supply from vehicle 110/220 VAC adapter for lab/classroom use - Rechargeable lithium ion battery

Operating Systems

Microsoft® Windows® embedded CE3

External Tactical Communications

- Via EIA-423 serial connection
- Can accept either TacLink® 3000 or PCIDM tactical modem devices

Accessories

- AC/DC power supply
- Ruggedized USB and serial cables

For more information, please contact:
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