



RUGGED TOUCH-SCREEN TABLET

The BOWMAN VUDT-3 is a touch-screen tablet computer with external keyboard capability delivering the best of rugged computer technology wherever it is needed – on the digital battlefield, at sea, or on the flightline. The BOWMAN VUDT-3 can be mounted inside a combat vehicle and operate on the move from vehicle power, or independently using its internal rechargeable batteries.

The BOWMAN VUDT-3 houses an entirely commercial-off-the-shelf (COTS) internal architecture and features long-life rechargeable Lithium Ion batteries that are hot-swappable, a truly exceptional thin film transistor (TFT) daylight readable touchscreen display and dual removable hard-drives.

The BOWMAN VUDT-3 has been specifically designed for extremely harsh environments and meets critical EMI and MIL-STD-810 environmental requirements. This proven and reliable computing system brings exceptional rugged computing performance and flexibility to the field at an affordable price and low life-cycle cost.

KEY FEATURES

- Rugged lightweight design
- Intel® Core i7 Dual Core CPU
- 16 GB RAM
- Dual hot-swappable batteries (ACPI compliant)
- Integrated power management
- High-resolution sunlight readable TFT display
- Configurable I/O options
- 2 user removable hard drives SSDH option
- Optional external keyboard
- Vehicle installation kit
- Secure BIOS and TPM v1.2



BOWMAN VUDT-3

TECHNICAL SPECIFICATION

Processor	2.8GHz Intel® Core i7 Dual Core (quad thread)	
Memory	2x 8GB DDR3/ECC (16GB total)	
Mass storage	2x removable internal 320GB SATA hard drives or 512GB SSHD's	
Resolution	1024 x 768 pixels	
Operating system	MS Windows, Linux	
Expansion	Optional DVD/CD-ROM drive	
External ports	Parallel port, 2x USB 2.0 ports, Dual ethernet port, external video supports up to QXGA 2048 x 1536, Can Bus, 2 x RS170 ports	
Communication ports	Port 1	RS-232
	Port 2	RS-422 or RS-423
	Port 3	RS-422 or RS-423 or isolated RS-422
Power	28VDC vehicle power per MIL-STD-1275A, AC converter 90-264 VAC, 47-440Hz	
Battery	2 ACPI compliant smart battery packs	
Weight	5.4Kg	
Dimensions (W x D x H)	304mm x 304mm x 68.5mm	

ENVIRONMENTAL

Temperature, operating	-32°C to +60°C
Temperature, non-operating	-40°C to +71°C
Temperature, shock	-35°C to +21°C and +21°C to +52°C each within 10 minute intervals
Salt fog	48 hour exposure per MIL-STD-810E, Method 509.3, Proc. I
Solar radiation	Exposure per MIL-STD-810E, Method 505.3, Proc. I, hot-dry
Shock, road	Operates during three half-sine shock impulses in each direction of each orthogonal axis (total of 18 shocks) at a peak amplitude of 30g (-0%, 20%) and duration of 11ms (-0%, +50%), on isolation mounts
Shock, functional	Operates during three half-sine shock impulses in each direction of each orthogonal axis (total of 18 shocks) at a peak amplitude of 40g (-0%, 20%) and a duration of 6ms (-0%, +50%), hard mounted
Altitude	10,000 feet operating (tested to 15,000 feet) per MIL-STD-810E, Method 500.3, Proc. II
Humidity	Relative humidity operating per MIL-STD-810E, Method 507.3, Proc. II
Sand and dust	Exposure to wind blown sand and dust particles at a rate of 20±3 miles, per hour for 30 minutes per MIL-STD-810E, Method 510.E, Proc. I
Water tightness	No water penetration, 50 psig, 40 minutes, 3 feet spray per MIL-STD-810E, Method 506.3, Proc. III
Climate	Fungus resistant
Explosive atmosphere	Non-explosive when tested per MIL-STD-810E, Method 511.3, Proc. I
Vibration	Operates on the move without degraded performance when mounted on shock isolation fixtures for tracked and wheeled vehicles per MIL-STD-810E, Method 514.4, Proc. I, Category 8
EMI	MIL-STD-461E, CE-102, CS-101, CS-114, RE-102 and RS-103
ESD (operating)	15,000V to controls/surfaces
ESD (non-operating)	2000V to I/O pins