

Rugged Where You Need It, When You Need It.



Photo by Department of Defense

SCORPION™ RVT

In production for U.K. AS-90 Howitzer Program

The Scorpion™ Rugged Vehicle Terminal (RVT) is a touch screen tablet computer with external keyboard capability delivering the best of rugged computer technology to the Warfighter wherever it is needed – on the digital battlefield, at sea, or on the flightline. The RVT can be mounted inside a combat vehicle and operate on the move from vehicle power, or independently using its internal rechargeable batteries.

The Scorpion™ RVT 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 touch-screen display and a removable hard-drive or flashdrive.

The Scorpion™ RVT from DRS Tactical Systems 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 lifecycle cost.

A world leader in high-performance, ultra-rugged computing and integrated peripheral products, DRS Tactical Systems builds computers, servers, flat-panel displays and other products to withstand harsh and demanding military environments. DRS' proven reliability offers digital technology the warfighter can count on.

FEATURES

- Rugged lightweight design
- 1.4 GHz Intel® Pentium® M processor
- Microsoft Windows® XP and Embedded XP
- Internal PCMCIA
- Hot-swappable batteries
- Integrated power management
- High-resolution sunlight readable TFT display
- Configurable I/O options
- Expansion bay
- User removable hard drive



COMPUTER FEATURES

Processor	Intel® Pentium® M, 1 MB L2 cache
Memory	128 MB DDR, expandable to 2 GB
Mass storage	removable internal hard drive or flash drive
Display	SVGA 12.1-inch transfective daylight viewable touch screen
Resolution	800 x 600 pixels
Operating system	compliant with MS-DOS, Microsoft Windows® 2000 Microsoft Windows® 2000 XP, Microsoft NT v 4.0
Expansion	2 type I/II or 1 type III PCMCIA ports, additional battery, DVD/CD-ROM drive, custom USB interface device
External ports	2 USB (1.1 or 2.0), parallel, 10/100 ethernet, external VGA supports up to 1280 x 1024
Communication ports	(configuration dependent) port 1: RS-232, port 2: RS-422 or RS-423, port 3: RS-422 or RS-423
Power	28 VDC vehicle power per MIL-STD-1275A, AC converter 90-264 VAC, 47-440 Hz*
Battery	Lithium Ion hot-swappable
Weight	11.75 lbs.
Dimensions	12 x 12 x 2.7 inches

ENVIRONMENTAL

Temperature, operating	-20°C to +60°C
Temperature, non-operating	-40°C to 71°C
Temperature, with heaters	-32°C to +60°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, procedure I
Solar radiation	exposure per MIL-STD-810E, method 505.3, procedure 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 30 g (-0%, 20%) and duration of 11 ms (-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 40 g (-0%, 20%) and a duration of 6 ms (-0%, +50%), hard mounted
Altitude	10,000 feet operating (tested to 15,000 feet) per MIL-STD-810E, method 500.3, procedure II
Humidity	relative humidity operating per MIL-STD-810E, method 507.3, procedure II
Sand and dust	exposure to wind blown sand and dust particle at a rate of 20±3 miles per hour for 30 minutes per MIL-STD-810E, method 510.E, procedure I
Water tightness	no water penetration, 50 psig, 40 minutes, 3 feet spray per MILSTD-810E, method 506.3, procedure 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	15,000 V to controls/surfaces
ESD, non-operating	2000 V to I/O pins

*Denotes optional item

